Slagschaduwstudie

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Inhoudsopgave

1 Inleiding 5

2 Wat is slagschaduw en de hinder ervan? 10

3 Juridisch kader 12

4 Methodologie 13

4.1 Slagschaduwbepaling 13

4.1.1 Astronomisch maximum 13

4.1.2 Verwachte slagschaduwduur voor representatieve greenhouse objecten 14

4.2 Slagschaduwmodelleringen 15

5 Resultaten 19

5.1 Het project 24

5.2 Geplande situatie 1A 25

5.3 Geplande situatie 1B 27

5.4 Geplande situatie 2A 28

5.5 Geplande situatie 2B 29

5.6 Detailbespreking van enkele representatieve receptoren 29

5.7 Bespreking van slagschaduweffecten per windturbine 33

6 Automatische stilstandsmodule 35

7 Conclusies slagschaduwimpact 36

Annex A: Automatische stilstandsmodule 37

Annex B: Gedetailleerde modelleringen 38

Colofon 39

Tabellen

Tabel 1-1: Relevante windturbines in de verschillende scenario's. 6

Tabel 4-1: Gegevens van de geselecteerde representatieve receptoren in functie van de slagschaduwberekeningen. 16

Tabel 5-1: Berekende slagschaduwduur (**dagelijks maximum in uren**) voor het project, referentiesituatie A en geplande situatie 1A en 2A. 20

Tabel 5-2: Berekende slagschaduwduur (**dagelijks maximum in uren**) voor het project, referentiesituatie B en geplande situatie 1B en 2B. 21

Tabel 5-3: Berekende slagschaduwduur (**verwacht jaartotaal in uren**) voor het project, referentiesituatie A en geplande situatie 1A en 2A. 22

Tabel 5-4: Berekende slagschaduwduur (**verwacht jaartotaal in uren**) voor het project, referentiesituatie B en geplande situatie 1B en 2B. 23

Tabel 5-5: Resultaten slagschaduwmodellering voor receptor 8. 30

Tabel 5-6: Resultaten slagschaduwmodellering voor receptor 12. 31

Figuren

Figuur 2-1: Schaduwkegel in zomer- en winterperiode (resp. links en rechts). 10

Figuur 4-1: Illustratie van het astronomisch maximum. 13

Figuur 4-2: Voorbeeld van een slagschaduwkalender van een receptor (Elk kleur stelt slagschaduw voor van een bepaalde windturbine op een gegeven moment). 14

Figuur 4-3: Illustratie van de verwachte slagschaduw voor een greenhouse met een bewolkte hemel. 15

Figuur 4-4: Receptoren, windturbines, gewestplan en GRUP. 16

Figuur 5-1: Isocontouren voor de verwachte slagschaduw (uren per jaar) van het project, vóór het nemen van milderende maatregelen. 24

Figuur 5-2: Isocontouren voor de verwachte slagschaduw (uren per jaar) van de geplande situatie 1, vóór het nemen van milderende maatregelen. 26

Figuur 5-3: Isocontouren voor de verwachte slagschaduw (uren per jaar) van de geplande situatie 1B (voor het nemen van milderende maatregelen). 27

Figuur 5-4 geeft de isocontouren weer voor de verwachte slagschaduwduur voor de geplande situatie 2A (voor het nemen van milderende maatregelen). 28

Figuur 5-5: Isocontouren voor de verwachte slagschaduw (uren per jaar) van de geplande situatie 2B, vóór het nemen van milderende maatregelen. 29

Figuur 5-6: Slagschaduwkalender vóór het nemen van milderende maatregelen, ter hoogte van receptor 8, gelegen ten noorden van het project. 31

Figuur 5-7: Slagschaduwkalender vóór het nemen van milderende maatregelen, ter hoogte van receptor 12, gelegen ten zuiden van van het project. 32

Figuur 5-8: Grafische voorstelling van de slagschaduwkalender voor de geplande windturbine KLZ-WT23 voor afregeling van de windturbine. 33

1 Inleiding

Om het effect van de windturbine op vlak van slagschaduw te bepalen, wordt een slagschaduwmodellering uitgevoerd conform de voorwaarden opgenomen in het addendum R20.1.6.

Voorliggende slagschaduwstudie omvat een beschrijving van de te verwachten slagschaduweffecten van het windenergieproject op de site van Stukwerkers in het Kluizendok. Gezien nog niet geweten is of dat vergunde windturbine KLZ-WT19 zal worden gerealiseerd en bijhorend KLZ-WT11 zal worden afgebroken is er sprake van twee referentiesituaties A en B. Daarnaast zijn er nog twee windturbines (KLZ-WT21 en KLZ-WT22) in de omgeving in ontwikkeling die mogelijks zouden worden vergund en gerealiseerd, deze vormen het onderwerp van geplande situatie 2:

- Het **project**: de geplande windturbine KLZ-WT23
- **Referentiesituatie A:** relevante[1] bestaande, vergunde windturbines in de omgeving van het project (**incl**. KLZ-WT19 en **excl**. KLZ-WT11). In deze situatie wordt KLZ-WT19 gebouwd en KLZ-WT11 afgebroken;
- **Referentiesituatie B:** relevante bestaande, vergunde windturbines in de omgeving van het project (**excl**. KLZ-WT19 en **incl**.KLZ-WT11). In deze situatie wordt KLZ-WT19 niet gebouwd en KLZ-WT11 niet afgebroken;
- De **geplande situatie 1A:** cumulatief effect van referentiesituatie A met het project;
- De **geplande situatie 1B:** cumulatief effect van referentiesituatie B met het project;
- De **geplande situatie 2A:** cumulatief effect van referentiesituatie A met het project en de relevante windturbines in ontwikkeling;
- De **geplande situatie 2B:** cumulatief effect van referentiesituatie B met het project en de relevante windturbines in ontwikkeling;

In deze studie wordt gebruik gemaakt van verschillende benamingen om punten in de omgeving van de windturbine aan te duiden. ‘Slagschaduwgevoelige objecten’ verwijst naar alle gebouwen waarin gewoond of gewerkt wordt binnen de 0-uur slagschaduwcontour van een bepaald scenario. Bij deze gebouwen is de aanwezigheid slagschaduw dus mogelijk. ‘Receptoren’ verwijst op zijn beurt naar een selectie van gebouwen waarvoor er in deze studie berekeningen/modelleringen gemaakt zijn. Er zijn bijgevolg meer slagschaduwgevoelige objecten dan receptoren en elke receptor is een object, maar het omgekeerde is niet geldig.

De gedetailleerde slagschaduwmodelleringen zijn weergegeven in ‘Annex B: Gedetailleerde modelleringen’ bij deze slagschaduwstudie.

[1] Conform de interpretatiegids m.e.r.-rubrieken

Tabel 1-1: Relevante windturbines in de verschillende scenario's.

Naam	Lambert-72 x(m)	Lambert-72 y(m)	Project	Referentiesituatie A	Referentiesituatie B	Geplande Situatie 1A	Geplande Situatie 1B	Geplande Situatie 2A	Geplande Situatie 2B
Project									
KLZ-WT23	108781	205627	X			X	X	X	X
Bestaande en vergunde turbines									
KLZ-WT01	109653	206929		X	X	X	X	X	X
KLZ-WT02	109337	206834		X	X	X	X	X	X
KLZ-WT04	108595	206585		X	X	X	X	X	X
KLZ-WT05	108233	206502		X	X	X	X	X	X
KLZ-WT06	107898	206322		X	X	X	X	X	X
KLZ-WT08	107596	204270		X	X	X	X	X	X
KLZ-WT10	108320	204485		X	X	X	X	X	X
KLZ-WT11	108672	204558			X		X		X
KLZ-WT12	107283	206313		X	X	X	X	X	X
KLZ-WT13	106963	205983		X	X	X	X	X	X
KLZ-WT15	106447	204659		X	X	X	X	X	X

Naam	Lambert-72 x(m)	Lambert-72 y(m)	Project	Referentiesituatie A	Referentiesituatie B	Geplande Situatie 1A	Geplande Situatie 1B	Geplande Situatie 2A	Geplande Situatie 2B
KLZ-WT16	106409	204106		X	X	X	X	X	X
KLZ-WT17	108845	206555		X	X	X	X	X	X
KLZ-WT19	108589	204627		X		X		X	
KLZ-WT20KLZ-WT	107601	206186		X	X	X	X	X	X
RIN_WT01KLZ-WT	108045	208389		X	X	X	X	X	X
MXS_WT01KLZ-WT	108810	203720		X	X	X	X	X	X
ALB_WT01KLZ-WT	108129	203056		X	X	X	X	X	X
CBR_WT01KLZ-WT	109199	204660		X	X	X	X	X	X
ATS_WT01	107438	201986		X	X	X	X	X	X
SAM_WT01	112131	207449		X	X	X	X	X	X
SAM_WT03	111438	207038		X	X	X	X	X	X
SAM_WT02	111799	206878		X	X	X	X	X	X
SAM_WT04	110414	205130		X	X	X	X	X	X
SAM_WT05	109878	204734		X	X	X	X	X	X
SAM_WT06	109720	205956		X	X	X	X	X	X

Naam	Lambert-72 x(m)	Lambert-72 y(m)	Project	Referentiesituatie A	Referentiesituatie B	Geplande Situatie 1A	Geplande Situatie 1B	Geplande Situatie 2A	Geplande Situatie 2B
SAM_WT07	109509	205446		X	X	X	X	X	X
SAM_WT08	111215	206006		X	X	X	X	X	X
SAM_WT09	112321	207938		X	X	X	X	X	X
SAM_WT10	110490	207672		X	X	X	X	X	X
SAM_WT11	110164	205375		X	X	X	X	X	X
MVZ_WT01	109715	202591		X	X	X	X	X	X
MVZ_WT02	110052	202627		X	X	X	X	X	X
EAM_WT01	110746	208330		X	X	X	X	X	X
EAM_WT02	111134	208423		X	X	X	X	X	X
EAM_WT03	111493	208509		X	X	X	X	X	X
EAM_WT05	112214	208658		X	X	X	X	X	X
RHR_WT01	109022	203110		X	X	X	X	X	X
RHR_WT03	108481	202945		X	X	X	X	X	X
RHR_WT02	109082	202694		X	X	X	X	X	X
MVN_WT01	110103	203099		X	X	X	X	X	X

Naam	Lambert-72 x(m)	Lambert-72 y(m)	Project	Referentiesituatie A	Referentiesituatie B	Geplande Situatie 1A	Geplande Situatie 1B	Geplande Situatie 2A	Geplande Situatie 2B
EVE_WT01	106632	206417		X	X	X	X	X	X
EVE_WT02	106491	205925		X	X	X	X	X	X
SWB_WT01_RP	112521	206699		X	X	X	X	X	X
SWB_WT02_RP	112740	207253		X	X	X	X	X	X
TEN_WT01	109463	207750		X	X	X	X	X	X
Windturbine in ontwikkeling									
KLZ-WT21	108099	205347						X	X
KLZ-WT22	107120	204429						X	X

2 Wat is slagschaduw en de hinder ervan?

Slagschaduw wordt waargenomen wanneer een draaiende windturbine tussen de zon en de waarnemer staat, zonder dat een obstakel (een boom, een ander huis, een garage, torenflats,…) de slagschaduw verhindert.

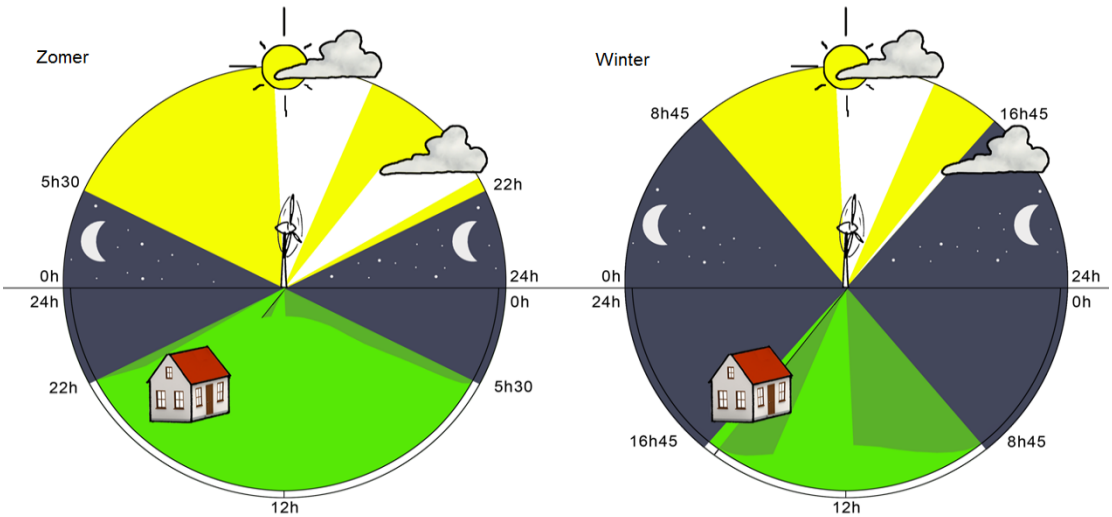
Een wiek van een windturbine zal bij helder en zonnig weer een schaduw werpen op de achterliggende grond. Op bepaalde plaatsen en onder bepaalde omstandigheden kan de slagschaduw op een raam van een gebouw vallen en in die binnenruimte een hinderlijke wisseling van lichtsterktes veroorzaken.

Een slagschaduwgevoelig object wordt door de milieuregelgeving gedefinieerd als een binnenruimte waar slagschaduw van windturbines hinder kan veroorzaken. Het betreft concreet een woning, een kantoorgebouw of elk ander gebouw waarin mensen wonen en/of werken. Als er, met andere woorden, geen hinder kan optreden kan men ook niet spreken van een slagschaduwgevoelig object (bv een magazijn zonder raam, kantoorgebouwen buiten de kantooruren, gesloten technische ruimtes, een woning zonder ramen aan de kant van de windturbine, ….).

De zone waar slagschaduw kan optreden is variabel en hangt af van het seizoen en het moment van de dag. De zone waar slagschaduw kan optreden is typisch groter tijdens de lente- en herfstmaanden en dit gedurende de ochtendperiode en de laatste uren van de dag wanneer de zon laag staat en de schaduwkegel langer wordt.

Sowieso kan geen slagschaduw optreden in een cirkelsegment (van in totaal circa 80°) ten zuiden van de windturbine, gezien de zon nooit in het noorden staat.

Op Figuur 2-1 is te zien dat in de zomer (links) de zon ’s middags bijna loodrecht staat boven het aardoppervlak zodat de slagschaduwkegel klein is. Rechts wordt de grotere kegel weergegeven, die typisch is voor de winterperiode. Deze grotere kegel is het gevolg van de zon die dus onder een kleinere hoek staat ten opzichte van het aardoppervlak.



Figuur 2-1: Schaduwkegel in zomer- en winterperiode (resp. links en rechts).

Er zijn enkele componenten van belang om de hinder van slagschaduw te bepalen:

- De wisselfrequentie (ook wel de flikkerfrequentie genoemd). Uit onderzoek is gebleken dat het de hinder het grootst is bij flikkeringen met een frequentie van 2,5 tot 14 keer per seconde[2]. Er kunnen verschijnselen als zeeziekte optreden en bij mensen die hiervoor gevoelig zijn, kan een epileptische aanval optreden. Deze frequentie wordt bij moderne windturbines niet gehaald, waardoor deze component niet van belang is bij het

[2] bron: www.gezondheid.be

mogelijke hindereffect en waardoor ook voornoemde negatieve gezondheidseffecten niet worden verwacht. Het volle vermogen van een windturbine met een gemiddelde rotordiameter van 130 m, wordt gehaald bij een snelheid van ongeveer 10 omwentelingen per minuut4. Dit betekent voor een windturbine met drie bladen een flikkerfrequentie van 30 per minuut of 0,5 keer per seconde. De windturbine van het project heeft een grotere rotordiameter waardoor de frequentie hoogstwaarschijnlijk gelijk of nog lager zal zijn. De frequenties door rotatie van de windturbinebladen voor de zon liggen dus veel lager dan de frequentie die gezondheidshinder kan veroorzaken.

- de duur en het moment van de slagschaduw
- de afstand van de windturbines tot de gevoelige objecten, bij grotere afstanden is er minder hinder, doordat de wiek dan niet de hele zonneschijf kan verbergen.

3 Juridisch kader

De VLAREM regelgeving (VLAREM II, Afdeling 5.20.6.) vormt actueel het normenkader. In deze regelgeving worden volgende definities aangehouden:

- **Verwachte slagschaduw**: Het aantal uren slagschaduw dat aan de hand van de correcties met klimatologische maandnormalen verwacht mag worden.
- **Effectieve slagschaduw**: Het aantal uur slagschaduw dat effectief ter hoogte van een relevant slagschaduwgevoelig object opgetreden is, bepaald op basis van metingen of bepaald uit het logboek van de windturbines.
- **Slagschaduwgevoelig object**: een binnenruimte waar slagschaduw van windturbines hinder kan veroorzaken.

Als er, met andere woorden, geen hinder kan optreden kan men ook niet spreken van een slagschaduwgevoelig object (bv een magazijn, kantoorgebouwen buiten de kantooruren, gesloten technische ruimtes, een woning zonder ramen uitkijkend op de windturbines….).

De krachtlijnen van de VLAREM II-voorwaarden inzake slagschaduw zijn de volgende:

1. als een slagschaduwgevoelig object zich bevindt binnen de contour van vier uur verwachte slagschaduw per jaar van de windturbine, wordt de windturbine uitgerust met een automatische stilstand module.

2. de exploitant houdt een logboek bij per windturbine. Dat logboek vermeldt de nodige gegevens om de effectieve slagschaduw voor elk relevant slagschaduwgevoelig object binnen de contour van vier uur verwachte slagschaduw per jaar te bepalen. In het logboek worden voor elk relevant slagschaduwgevoelig object binnen de contour van vier uur verwachte slagschaduw per kalenderjaar volgende gegevens bijgehouden:

    1. de lijst van alle relevante slagschaduwgevoelige objecten met hun respectievelijke Lambertcoördinaten;

    2. een slagschaduwkalender voor elk relevant slagschaduwgevoelig object in tabelvorm waarin de astronomisch maximaal mogelijke slagschaduwduur voor elke windturbine wordt weergegeven.

3. de exploitant stelt minstens de eerste twee exploitatiejaren een controlerapport op, op basis van de gegevens vermeld in lid 1 en 2. Dat rapport vermeldt tenminste hoeveel effectieve slagschaduw elk relevant slagschaduwgevoelig object binnen de contour van vier uur verwachte slagschaduw per jaar heeft getroffen en welke remediërende maatregelen eventueel zijn genomen.

4. tenzij anders vermeld in de milieuvergunning, geldt voor elk relevant slagschaduwgevoelig object:

- **een maximum van 30 uur effectieve slagschaduw per jaar, met een maximum van dertig minuten effectieve slagschaduw per dag voor objecten in industriegebied (met uitz. van woningen)**
- **een maximum van 8 uur effectieve slagschaduw per jaar, met een maximum van dertig minuten effectieve slagschaduw per dag voor objecten in andere gebieden en alle woningen.**

4 Methodologie

Om het effect van de windturbine op vlak van slagschaduw te bepalen, wordt een slagschaduwmodellering uitgevoerd conform de voorwaarden opgenomen in het addendum R20.1.6 van het omgevingsvergunningsbesluit. Naast de locatie van de Windturbine zijn ook de afmetingen van de windturbine van belang voor de berekeningen.

De exacte afmetingen van de geplande windturbine is echter nog niet gekend. Daarom wordt in voorliggende nota telkens een worst-case windturbine gemodelleerd, met een maximale tiphoogte en rotordiameter. De maximale tiphoogte bedraagt 285m (geen bovengrondse sokkel). De maximale rotordiameter bedraagt 175 meter.

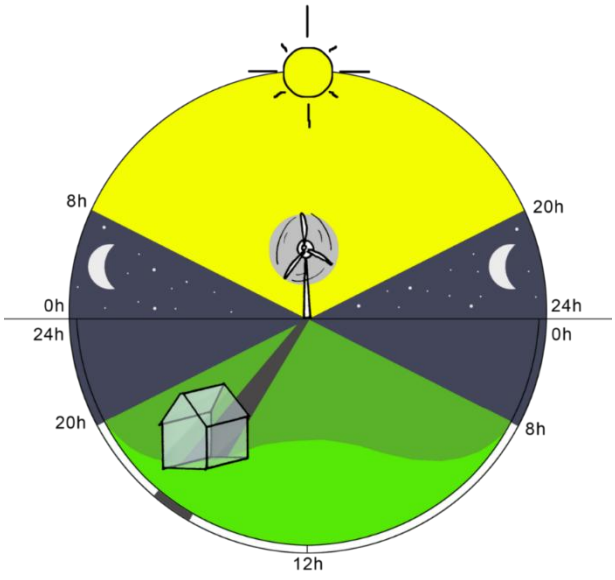
4.1 Slagschaduwbepaling

4.1.1 Astronomisch maximum

De berekening van het astronomisch maximum is nuttig om na te gaan op welke momenten en hoe lang slagschaduw zo3u kunnen optreden. Bij de bepaling van het astronomisch maximum van de slagschaduw worden volgende aannames gebruikt:

- **Zonneschijn**: De zon schijnt altijd van zodra ze op is en blijft schijnen tot ze onder is en wordt niet belemmerd door wolken.
- **Windsnelheid**: Er is steeds voldoende wind zodat de windturbine altijd draait. Ze stopt nooit wegens windstil, onderhoud of een andere reden.
- **Windrichting**: De wind komt steeds uit dezelfde richting als de zon (O->Z->W) waardoor de rotor steeds loodrecht op de zon staat. Dit resulteert in een maximale slagschaduw. Er wordt geen correctie doorgevoerd voor de werkelijke windrichting.
- **Locatie ramen van het object**: Het object wordt beschouwd als een serre met in elke gevel een raam op 1 m boven het maaiveld van 2 m hoog en 5 m breed. In de huidige milieuwetgeving wordt een huis dat als serre beschouwd wordt, omgeschreven als een “greenhouse”. Dit begrip zal verder zo in dit document gebruikt worden.
- **Oriëntatie ramen van het object**: Elke glaspartij is steeds gericht naar de zon (object ontvangt licht uit alle richtingen).
- **Obstakels**: Er zijn geen obstakels (noch natuurelementen, noch andere gebouwen) die zorgen voor een permanente schaduw en op die manier slagschaduw verhinderen.

Figuur 4-1 illustreert de aannames voor de bepaling van het astronomisch maximum voor een dag (0h tot 24h).



Figuur 4-1: Illustratie van het astronomisch maximum.

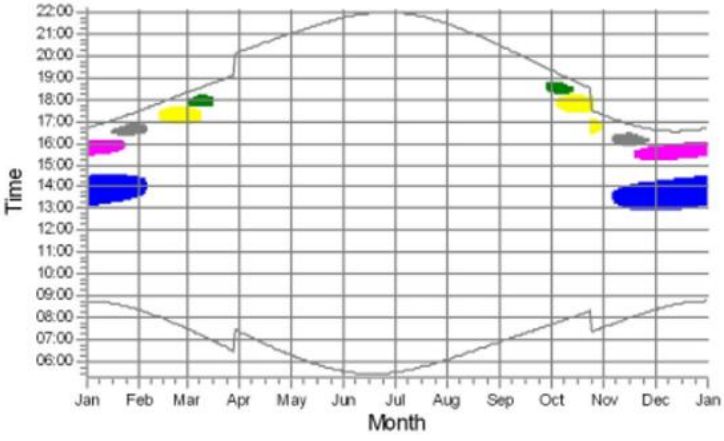
Deze aannames schetsen een **hypothetische worst-case situatie** zowel op meteorologisch vlak als op vlak van het object zelf. Het komt immers niet voor dat in elk huis of kantoorgebouw op elk moment van de dag een raam gericht is naar de windturbine.

De resultaten van de berekeningen worden weergegeven in een slagschaduwkalender (zie Figuur 4-2). Deze kalender geeft weer wanneer in het jaar en op welk moment tijdens de dag slagschaduw **in theorie** zou kunnen optreden ter hoogte van een bepaalde receptor. Op alle andere momenten kan sowieso geen slagschaduw optreden.

Er wordt een onderscheid gemaakt tussen slagschaduwkalenders van een (slagschaduwgevoelig) object en slagschaduwkalenders van een windturbine. Beide slagschaduwkalenders kunnen zowel numeriek als grafisch weergegeven worden.

- De **slagschaduwkalender van een object** geeft aan wanneer (datum en uur) er ter hoogte van het object in theorie slagschaduw zou kunnen optreden en van welke windturbine deze slagschaduw op dat ogenblik afkomstig is.
- De **slagschaduwkalender van een windturbine** geeft aan wanneer (datum en uur) deze windturbine in theorie slagschaduw kan veroorzaken op (minstens) één van de geselecteerde representatieve slagschaduwgevoelige objecten.

	July	August	September	October		
1	05:29	06:04	06:52	07:40		18:27 (WT1)
	22:00	21:29	20:29	19:21	17	18:44 (WT1)
2	05:29	06:06	06:54	07:42		18:25 (WT1)
	22:00	21:28	20:27	19:19	19	18:44 (WT1)
3	05:30	06:07	06:56	07:43		18:24 (WT1)
	21:59	21:26	20:24	19:16	21	18:45 (WT1)
4	05:31	06:09	06:57	07:45		18:23 (WT1)
	21:59	21:24	20:22	19:14	22	18:45 (WT1)
5	05:32	06:10	06:59	07:46		17:47 (WT2)
	21:59	21:23	20:20	19:12	32	18:44 (WT1)
6	05:33	06:12	07:00	07:48		17:44 (WT2)
	21:58	21:21	20:18	19:10	37	18:42 (WT1)
7	05:33	06:13	07:02	07:50		17:41 (WT2)
	21:58	21:19	20:16	19:07	41	18:41 (WT1)
8	05:34	06:15	07:03	07:51		17:38 (WT2)
	21:57	21:18	20:13	19:05	42	18:38 (WT1)
9	05:35	06:16	07:05	07:53		17:37 (WT2)
	21:56	21:16	20:11	19:03	42	18:36 (WT1)



Figuur 4-2: Voorbeeld van een slagschaduwkalender van een receptor (Elk kleur stelt slagschaduw voor van een bepaalde windturbine op een gegeven moment).

In werkelijkheid treedt slagschaduw pas op tijdens die momenten waarop alle omstandigheden goed zitten. Dus wanneer bovenstaande aannames opgaan voor alle parameters (zonneschijn, windsnelheid, windrichting, locatie en oriëntatie van de ramen, obstakels). **Daarom zal het astronomisch maximum een overschatting zijn van de werkelijke verwachte slagschaduwduur.**

4.1.2 Verwachte slagschaduwduur voor representatieve greenhouse objecten

De bepaling van de te verwachten slagschaduw voor representatieve greenhouse objecten is een **conservatieve benadering van de realiteit**. Hierbij worden volgende aannames gebruikt:

- **Zonneschijn**: De zon wordt af en toe belemmerd door wolken en schijnt dus niet elke dag van zonsopgang tot zonsondergang.
- **Windsnelheid:** De windturbine draait vaak, maar niet bij windstille periodes.
- **Windrichting**: De windrichting is variabel en de rotor staat steeds loodrecht op de windrichting. Hierdoor staat de rotor niet steeds loodrecht op de zon.
- **Locatie ramen van het object**: Het object wordt nog steeds beschouwd als een serre (“greenhouse”) met in elke gevel een raam op 1 m boven het maaiveld van 2 m hoog en 5 m breed.
- **Oriëntatie ramen van het object**: Elke glaspartij is nog steeds gericht naar de zon (object ontvangt licht uit alle richtingen.

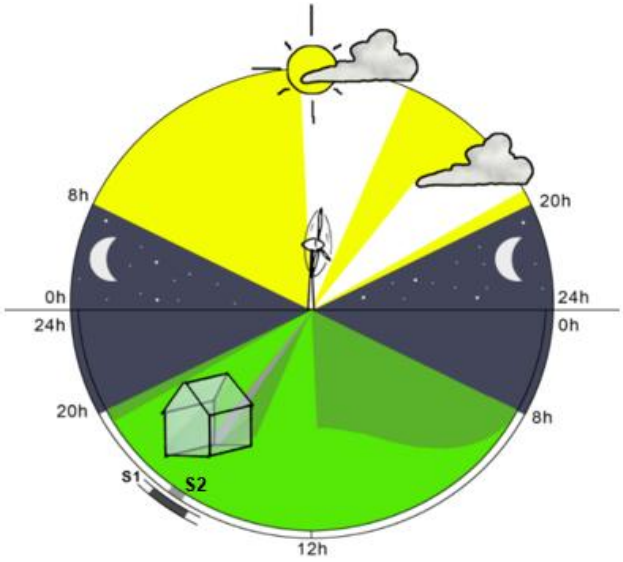
- **Obstakels**: Er zijn nog steeds geen obstakels (noch natuurelementen noch andere gebouwen) die zorgen voor permanente schaduw en op die manier slagschaduw verhinderen.

Deze methode is een conservatieve benadering van de realiteit. De normale gemiddelde meteorologische omstandigheden (bewolking, variabele windsnelheid en -richting) worden dus in rekening gebracht, maar het object is nog steeds theoretisch (locatie en oriëntatie van de ramen), net als de omgeving (vrij van obstakels zoals gebouwen of vegetatie).

Rekening houdend met normale omstandigheden voor zonneschijn, windsnelheid en windrichting, bedraagt de **verwachte slagschaduw voor een greenhouse slechts 10% tot 20% van de resultaten weergegeven in de slagschaduwkalenders** (het astronomisch maximum). Bovendien is dit nog steeds een overschatting van de werkelijkheid omwille van de conservatieve aannames voor het (onrealistische) object en de (lege) omgeving.

De resultaten van de berekening van de verwachte slagschaduwduur kunnen eveneens weergegeven worden op slagschaduwkalenders.

Figuur 4-3 illustreert dat de verwachte slagschaduw (aangeduid door S2 op de figuur) voor een greenhouse veel kleiner is dan het astronomisch maximum (aangeduid als S1 op de figuur) door het in rekening brengen van normale meteorologische omstandigheden (bewolking, variabele windsnelheid en -richting).



Figuur 4-3: Illustratie van de verwachte slagschaduw voor een greenhouse met een bewolkte hemel.

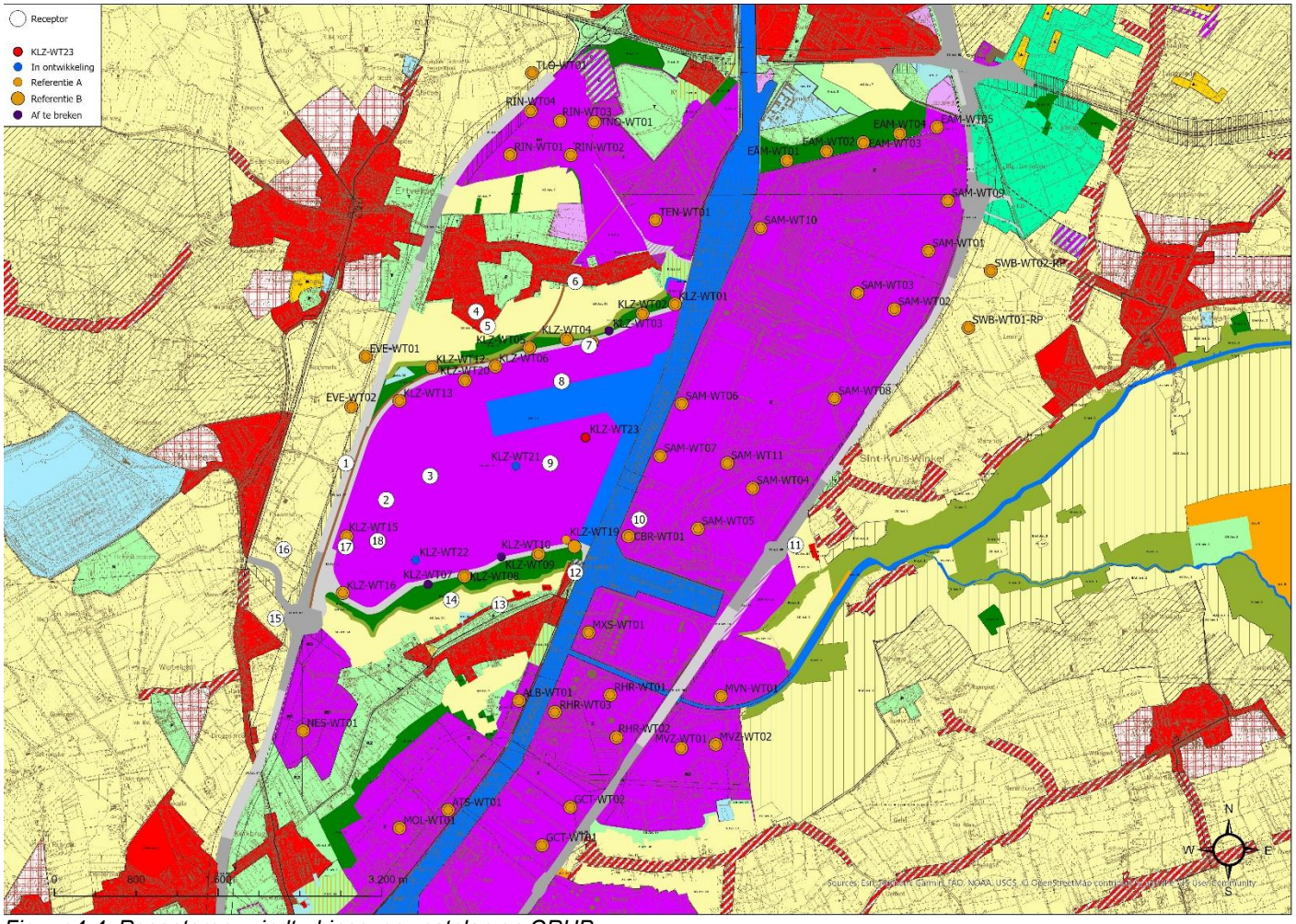
4.2 Slagschaduwmodelleringen

Het is gangbaar om slagschaduw slechts te beschouwen tot zonnehoeken groter dan 3° ten opzichte van de horizon[3]. Bij een lagere stand van de zon is het zonlicht immers te zwak en wordt er veel zonlicht afgeschermd door vegetatie en gebouwen. Rekening houdende met een maximale tiphoogte van 285 m voor de geplande windturbine in onderhavig project, kan het studiegebied bijgevolg bepaald worden door een circa 5,4 km straal rond het projectgebied te beschouwen.

De slagschaduwcontouren (slagschaduw per jaar in uur) zullen bepaald worden binnen dit studiegebied. Dit zal gebeuren ter hoogte van geselecteerde representatieve[4] relevante schaduwgevoelige objecten (of receptoren). In voorliggende nota wordt een selectie van 18 relevante receptoren beschouwd, voor dewelke de slagschaduwberekeningen uitgevoerd worden en slagschaduwkalenders opgesteld worden. Deze receptoren zijn slechts een selectie van alle relevante slagschaduwgevoelige objecten in het studiegebied. Deze receptoren werden geïdentificeerd op basis van luchtfoto's en berekende slagschaduwcontouren (isocontour van 0 en 4 uren

[3] Standaard instelling in WindPro.
[4] Conform VLAREM-verplichtingen voor vergunningsaanvragen

verwachte slagschaduw van de geplande windturbine). Deze selectie receptoren geeft reeds een goed beeld van de slagschaduwimpact van de geplande windturbine. De geselecteerde representatieve receptoren worden weergegeven in Tabel 4-1 (zie ook Figuur 4-4). Tevens wordt per receptor aangeduid of het gaat over een woning of een ander type van gebouw[5], al dan niet gelegen in industriegebied.



Figuur 4-4: Receptoren, windturbines, gewestplan en GRUP.

Tabel 4-1: Gegevens van de geselecteerde representatieve receptoren in functie van de slagschaduwberekeningen.

Receptor ID	Lambert 72 coördinaten		Omschrijving	Functie
	X (m)	Y (m)		
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf
4	107712	206856	Ooievaarstraat 7, 9940 Evergem	Woning
5	107822	206713	Spiedamstraat 58, 9940 Evergem	Woning

[5] Deze bepaling werd uitgevoerd op basis van luchtfoto's. Op basis van luchtfoto's kan niet gegarandeerd worden of de bepaling van het type gebouw volledig juist is. Een verfijning in een latere fase, kan hier meer duidelijkheid in brengen.

Receptor ID	Lambert 72 coördinaten		Omschrijving	Functie
	X (m)	Y (m)		
6	108680	207151	Riemewegel 46, 9940 Evergem	Woning
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf
8	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf
10	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf
11	110830	204575	Schuitstraat 1, 9042 Gent	Woning
12	108680	204307	Terdonkkaai 8, 9042 Gent	Woning
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning
15	105749	203857	Hageland 41, 9940 Evergem	Woning
16	105831	204531	Molendreef 5, 9940 Evergem	Woning
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf

De isocontouren van de verwachte slagschaduw per jaar worden berekend met behulp van het rekenmodel WindPRO. De isocontourenkaart voor de verwachte slagschaduw wordt binnen dit rekenmodel opgemaakt via een berekening op een raster. In WindPRO is gekozen voor de resolutie ‘Coarse[6]. Het model berekent de verwachte slagschaduw naar de onmiddellijke omgeving waarbij met diverse invloeden rekening wordt gehouden:

- **Technische specificaties windturbines**: Het exacte type windturbine dat door de initiatienemer zal gebouwd worden, is momenteel nog niet gekend. Voor de berekening van de slagschaduwimpact wordt uitgegaan van een maximale tiphoogte van «MaximaleTip» m en een maximale rotordiameter van «MaximaleRotor» m. De ashoogte wordt uit deze waarden afgeleid[7]. De gegevens van de verschillende voor slagschaduw relevante windturbines zijn weergegeven in Tabel 4-2 in de lokalisatienota. Welke windturbine meegenomen is in welk scenario is weergegeven in Tabel 1-1.
- **Zonneschijnstatistieken:** De zon schijnt van zodra ze op is en blijft schijnen tot ze onder is, maar er zijn ook bewolkte periodes. Er werd uitgegaan van data van het KMI over een periode van 1991 t.e.m. 2020 (NIS 44019) voor de gemeente Evergem.
- **Windstatistieken:** De windturbine draait vaak, maar er zijn ook windstille periodes. Daarnaast draait de gondel met de wind mee. Voor de bepaling van het aantal draaiuren van een windturbine per windrichtingsector is uitgegaan van de windstatistieken o.b.v. de data van KNMI over een periode van 1999 t.e.m. 2018 op Lambert-72(m) coördinaat x: 107.059 y: 205.173.
- **Receptoren:** Volgende assumpties zijn van toepassing:
- Het object wordt beschouwd als een greenhouse;

[6] Er zijn 3 instellingen mogelijk in WindPRO: ‘coarse’ (grof), ‘normal’ en ‘fine’ (gedetailleerd). Bij de opmaak van het model werd er gerekend met de standaardinstelling “coarse”.
[7] In dit geval bedraagt de berekende ashoogte (voor de slagschaduwberekeningen): 285 – 175/2 = 197,5 meter. De gebouwde windturbine kan een andere (hogere of lagere) ashoogte hebben, maar de hier gehanteerde waarden voor (de combinatie van) tiphoogte, rotordiameter en ashoogte vormt het worst-case scenario voor slagschaduw.

- Elke glaspartij is steeds gericht naar de zon;
- Er zijn geen obstakels (noch natuurelementen, noch gebouwen of andere structuren) die zorgen voor permanente schaduw.

Door de meteorologische omstandigheden (zonneschijn, windsnelheid en windrichting) in rekening te brengen zoals hierboven opgelijst, wordt de te verwachten slagschaduw beperkt. Ook in realiteit wordt de zonneschijnduur immers beperkt door bewolking, is de windsnelheid niet steeds voldoende of soms te hoog om de windturbine te laten draaien, en veroorzaakt de specifieke stand van de rotor – als gevolg van de heersende windrichting – mogelijks geen slagschaduw op het bewuste object.

Deze methode is nog steeds een conservatieve benadering van de realiteit. De normale meteorologische omstandigheden (bewolking, variabele windsnelheid en -richting) worden weliswaar in rekening gebracht, maar het object blijft echter theoretisch (elk huis wordt immers als een serre beschouwd waarbij de glaspartij altijd gericht is naar de (bewegende) zon, net als de omgeving (die als volledig vrij van obstakels, zoals gebouwen of vegetatie, wordt beschouwd). Rekening houdend met normale omstandigheden voor zonneschijn, windsnelheid en windrichting zijn de aannames voor een serre (greenhouse object) en hun omgeving (‘leeg’) nog steeds zeer conservatief.

Naast de slagschaduwkaarten (met isocontouren van 4, 8, 16, … uur verwachte slagschaduw per jaar) zullen ook gedetailleerde slagschaduwkalenders worden opgemaakt. Ter hoogte van representatieve relevante slagschaduwgevoelige woningen of gebouwen zal naast de slagschaduw per jaar (in uur) ook de maximale slagschaduw die zich zou kunnen voordoen op een bepaalde dag in een volledig jaar (in minuten) berekend worden.

De resultaten worden getoetst aan de vigerende VLAREM II-normen.

5 Resultaten

Voor de slagschaduwberekeningen voor het project, referentiesituatie A, referentiesituatie B, de geplande situatie 1A, geplande situatie 1B, geplande situatie 2A en geplande situatie 2B wordt uitgegaan van de aannames besproken in §4.2.

De resultaten van de slagschaduwberekening van de verwachte slagschaduw per dag voor het project, referentiesituatie A, geplande situatie 1A en de geplande situatie 2A wordt weergegeven in Tabel 5-1. Analoog is er Tabel 5-2 met de berekening voor het project, referentiesituatie B, geplande situatie 1B en geplande situatie 2B.

De verwachte slagschaduw per jaar is weergeven in Tabel 5-3 en Tabel 5-4. Respectievelijk tonen ze de verwachte slagschaduwuren voor: Tabel 5-3: het project, referentiesituatie A, geplande situatie 1A, geplande situatie 2A;Tabel 5-4: het project, referentiesituatie B, geplande situatie1B en geplande situatie 2B.

Een groene kleur geeft aan waar er geen overschrijding van de slagschaduwnorm zal zijn voor een bepaalde receptor. Een rode kleur geeft aan waar er mogelijk een overschrijding is van de slagschaduwnorm voor een bepaalde receptor. In dat geval zijn milderende maatregelen nodig. De gedetailleerde resultaten (incl. slagschaduwkalenders) zijn terug te vinden in Annex B: Gedetailleerde modelleringen.

De referentiesituatie A en B wordt niet in detail beschreven maar afgaande op onderstaande tabellen (Tabel 5-1, Tabel 5-2, Tabel 5-3, Tabel 5-4) kan opgemaakt worden dat er reeds slagschaduw waarneembaar is. Deze bestaande en vergunde windturbines zijn ook operationeel conform de VLAREM-wetgeving waardoor de werkelijke slagschaduwduur per receptor beperkt blijft.

*Tabel 5-1: Berekende slagschaduwduur (**dagelijks maximum in uren**) voor het project, referentiesituatie A en geplande situatie 1A en 2A.*

Maximum Slagschaduw (uren per dag)									
ID	Lambert 72 coördinaten		Adres	Functie	Project	Referentiesituatie A	Geplande Situatie 1A	Geplande situatie 2A	Na maatregelen
	X (m)	Y (m)			Berekend	Berekend	Berekend	Berekend	
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning	0:18	0:18	0:20	0:50	0:30
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:21	0:54	0:54	1:56	0:30
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:27	0:40	0:40	1:19	0:30
4	107712	206856	Ooievaarstraat 7, 9940 Evergem	Woning	0:28	1:39	2:02	2:02	0:30
5	107822	206713	Spiedamstraat 58, 9940 Evergem	Woning	0:31	2:07	2:35	2:35	0:30
6	108680	207151	Riemewegel 46, 9940 Evergem	Woning	0:00	2:06	2:06	2:06	0:30
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	0:43	1:37	1:37	1:37	0:30
8	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	1:09	0:57	1:45	2:07	0:30
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf	0:00	0:51	0:51	2:21	0:30
10	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf	0:00	3:57	3:57	3:57	0:30
11	110830	204575	Schuitstraat 1, 9042 Gent	Woning	0:19	0:35	0:35	0:46	0:30
12	108680	204307	Terdonkkaai 8, 9042 Gent	Woning	0:00	0:43	0:43	0:43	0:30
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning	0:00	0:38	0:38	1:16	0:30
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning	0:00	1:04	1:04	1:04	0:30
15	105749	203857	Hageland 41, 9940 Evergem	Woning	0:11	0:38	0:40	0:45	0:30
16	105831	204531	Molendreef 5, 9940 Evergem	Woning	0:13	0:42	0:52	0:57	0:30
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf	0:17	0:50	0:50	1:15	0:30
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf	0:20	1:28	1:39	1:55	0:30

*Tabel 5-2: Berekende slagschaduwduur (**dagelijks maximum in uren**) voor het project, referentiesituatie B en geplande situatie 1B en 2B.*

Maximum Slagschaduw (uren per dag)									
ID	Lambert 72 coördinaten		Adres	Functie	Project	Referentiesituatie B	Geplande Situatie 1B	Geplande situatie 2B	Na maatregelen
	X (m)	Y (m)			Berekend	Berekend	Berekend	Berekend	
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning	0:18	0:15	0:20	0:50	0:30
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:21	0:54	0:54	1:56	0:30
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:27	0:40	0:40	1:19	0:30
4	107712	206856	Ooievaarstraat 7, 9940 Evergem	Woning	0:28	1:39	2:02	2:02	0:30
5	107822	206713	Spiedamstraat 58, 9940 Evergem	Woning	0:31	2:07	2:35	2:35	0:30
6	108680	207151	Riemewegel 46, 9940 Evergem	Woning	0:00	2:06	2:06	2:06	0:30
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	0:43	1:37	1:37	1:37	0:30
8	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	1:09	0:57	1:45	2:07	0:30
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf	0:00	0:39	0:39	2:21	0:30
10	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf	0:00	3:15	3:15	3:15	0:30
11	110830	204575	Schuitstraat 1, 9042 Gent	Woning	0:19	0:35	0:35	0:46	0:30
12	108680	204307	Terdonkkaai 8, 9042 Gent	Woning	0:00	0:43	0:43	0:43	0:30
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning	0:00	0:38	0:38	1:16	0:30
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning	0:00	0:46	0:46	0:46	0:30
15	105749	203857	Hageland 41, 9940 Evergem	Woning	0:11	0:38	0:40	0:45	0:30
16	105831	204531	Molendreef 5, 9940 Evergem	Woning	0:13	0:42	0:52	0:57	0:30
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf	0:17	0:50	0:50	1:08	0:30
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf	0:20	1:28	1:39	1:55	0:30

*Tabel 5-3: Berekende slagschaduwduur (**verwacht jaartotaal in uren**) voor het project, referentiesituatie A en geplande situatie 1A en 2A.*

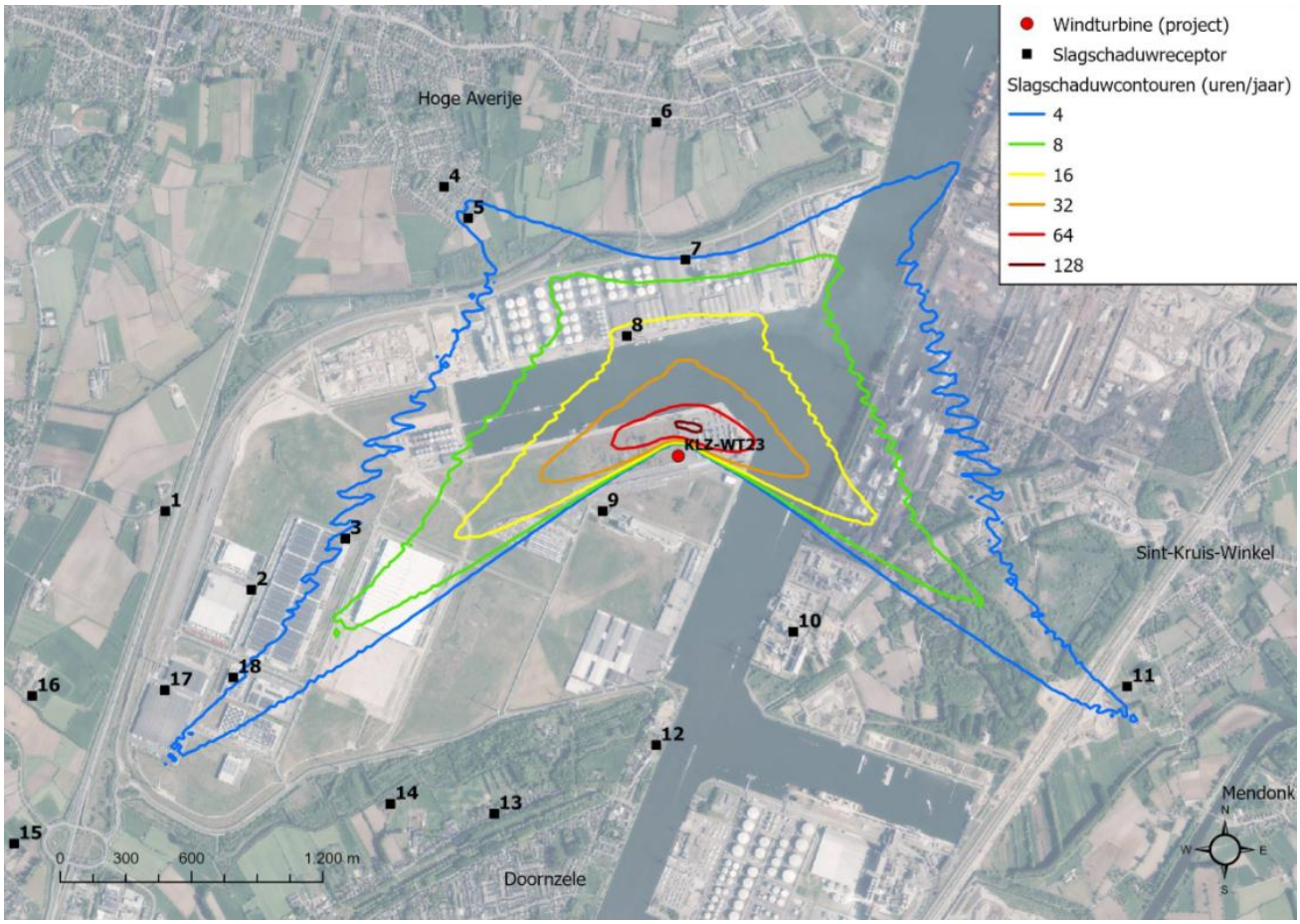
Maximum Slagschaduw (uren per jaar)									
ID	Lambert 72 coördinaten		Adres	Functie	Project	Referentiesituatie A	Geplande Situatie 1A	Geplande Situatie 2A	Na maatregelen
	X (m)	Y (m)			Berekend	Berekend	Berekend	Berekend	
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning	1,48	4,85	6,32	14,68	8,00
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf	2,82	15,77	18,22	39,07	30,00
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf	4,43	8,93	13,15	33,23	30,00
4	107712	206856	Ooievaarstraat 7, 9940 Evergem	Woning	3,58	28,22	31,85	31,87	8,00
5	107822	206713	Spiedamstraat 58, 9940 Evergem	Woning	4,37	49,05	53,38	53,42	8,00
6	108680	207151	Riemewegel 46, 9940 Evergem	Woning	0,00	25,05	25,05	25,07	8,00
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	4,55	41,83	46,32	47,70	30,00
8	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	18,97	23,18	41,87	50,47	30,00
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf	0,00	29,07	29,08	107,53	30,00
10	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf	0,00	123,70	123,73	134,88	30,00
11	110830	204575	Schuitstraat 1, 9042 Gent	Woning	2,83	12,73	15,53	16,38	8,00
12	108680	204307	Terdonkkaai 8, 9042 Gent	Woning	0,00	16,95	16,97	20,27	8,00
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning	0,00	21,12	21,13	28,20	8,00
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning	0,00	29,27	29,28	29,30	8,00
15	105749	203857	Hageland 41, 9940 Evergem	Woning	1,23	14,77	15,98	20,32	8,00
16	105831	204531	Molendreef 5, 9940 Evergem	Woning	0,92	15,27	16,15	21,17	8,00
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf	2,12	9,18	11,15	27,80	27,80
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf	3,83	55,78	59,50	96,20	30,00

*Tabel 5-4: Berekende slagschaduwduur (**verwacht jaartotaal in uren**) voor het project, referentiesituatie B en geplande situatie 1B en 2B.*

Maximum Slagschaduw (uren per jaar)									
ID	Lambert 72 coördinaten		Adres	Functie	Project	Referentiesituatie B	Geplande Situatie 1B	Geplande Situatie 2B	Na maatregelen
	X (m)	Y (m)			Berekend	Berekend	Berekend	Berekend	
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning	1,48	4,07	5,53	13,90	8,00
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf	2,82	14,33	16,78	37,63	30,00
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf	4,43	6,82	11,03	31,12	30,00
4	107712	206856	Ooievaarstraat 7, 9940 Evergem	Woning	3,58	28,23	31,87	31,88	8,00
5	107822	206713	Spiedamstraat 58, 9940 Evergem	Woning	4,37	49,07	53,40	53,43	8,00
6	108680	207151	Riemewegel 46, 9940 Evergem	Woning	0,00	25,07	25,07	25,08	8,00
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	4,55	41,85	46,33	47,72	30,00
8	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	18,97	23,18	41,88	50,48	30,00
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf	0,00	23,28	23,28	101,77	30,00
10	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf	0,00	114,90	114,93	126,07	30,00
11	110830	204575	Schuitstraat 1, 9042 Gent	Woning	2,83	12,45	15,25	16,10	8,00
12	108680	204307	Terdonkkaai 8, 9042 Gent	Woning	0,00	16,97	16,97	20,28	8,00
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning	0,00	21,13	21,13	28,20	8,00
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning	0,00	25,18	25,20	25,22	8,00
15	105749	203857	Hageland 41, 9940 Evergem	Woning	1,23	14,20	15,42	19,77	8,00
16	105831	204531	Molendreef 5, 9940 Evergem	Woning	0,92	14,87	15,75	20,77	8,00
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf	2,12	8,38	10,37	26,98	26,98
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf	3,83	54,70	58,42	95,08	30,00

5.1 Het project

Figuur 5-1 geeft de isocontouren weer voor de verwachte slagschaduwduur van het project (indien er geen afregeling zou zijn van de windturbine).



Figuur 5-1: Isocontouren voor de verwachte slagschaduw (uren per jaar) van het project, vóór het nemen van milderende maatregelen.

Om een duidelijk zicht te hebben van de verwachte slagschaduw van het project wordt het eerst los gezien van de context. Er wordt dus nog niet gekeken naar de verwachte slagschaduw die afkomstig is van bestaande, vergunde noch in ontwikkeling zijnde windturbines.

Beginnend met de verwachte slagschaduw per jaar, te zien in Figuur 5-1 en Tabel 5-4, daaruit blijkt dat geen enkele receptor een overschrijding heeft van de norm 3van maximaal 30 uur verwachte slagschaduw in gebouwen in industriegebied en maximaal 8 uur in alle andere gevallen (relevante voorbeelden hier: woningen in woongebied, zonevreemde woningen, zonevreemde bedrijven en conciërgewoningen) (§3).

Sterker nog, er zijn een groot aantal receptoren waar er zelfs geen verwachte slagschaduw zal optreden. Het gaat om volgende receptoren:

- Receptor 6: Woning liggende in woongebied Rieme (zie Hoge Averije Figuur 5-1). Het ligt voldoende ver noordwaarts dat de turbine geen verwachte slagschaduw geeft daar. **Het wijst er ook meteen op dat deze volledige woonkern geen verwachte slagschaduw zal ondervinden van het project.**
- Receptor 9: Bedrijf liggend in industriegebied Kluizendok. Is gelegen ten zuiden van het project en gegeven de gebruikelijke schijnbare baan van de zon; oost-zuid-west; zal er nooit slagschaduw zijn in het zuiden. Bijgevolg zullen alle receptoren ten zuiden van de windturbine nooit slagschaduw hebben.
- Receptor 10: Bedrijf liggend in industriegebied aan de oostkant van Kanaal Gent-Terneuzen, ten zuidoosten van het project. Geeft een indicatie tot waar dit “slagschaduwvrij zuiden” reikt en waar er dus geen slagschaduw is.

- Receptor 12: Woning in woongebied Doornzele (uiterst noordoostelijk deel). **De volledige woonkern Doornzele ligt ten zuiden en voldoende verwijderd van het project en zal dus ook geen slagschaduw hebben van het project.**
- Receptor 13: Woning in woongebied Doornzele en bijgevolg analoog aan receptor 12.
- Receptor 14: Zonevreemde woning ten noordwesten van Doornzele en ten zuidwesten van het project. Geeft een indicatie van slagschaduwvrij gebied in westelijke richting.
- Enkel receptor 8 ziet een beduidende toename in verwachte slagschaduwuren per jaar. Het gaat over het bedrijf en de opslagsite van Zoutman die op ongeveer 600m gelegen is ten noorden van het project, aan de andere zijde van het Kluizendok in industriegebied, deze blijft evenwel binnen de norm.

Tabel 5-3 licht de verwachte slagschaduwuren toe per dag. Zonder toepassen van een automatische stilstandsmodule is er mogelijk een overschrijding van de dagnorm van 30 minuten bij drie receptoren. Het gaat over volgende receptoren:

- Receptor 5: Woning in woongebied Rieme, ten noordwesten van het project. Hier wordt een overschrijding van 1 minuut vastgesteld.
- Receptor 7 (13 min. overschrijding) en 8 (39 min. overschrijding): Respectievelijk voor- en achterkant van opslagsite Zoutman ten noorden van het project vrij dicht gelegen op ongeveer 600 à 900 meter. Merk wel op dat de silo's fungeren als een afscherming tegen slagschaduw waardoor enkel de kaai en de toegangswegen hier potentieel last van kunnen ondervinden.

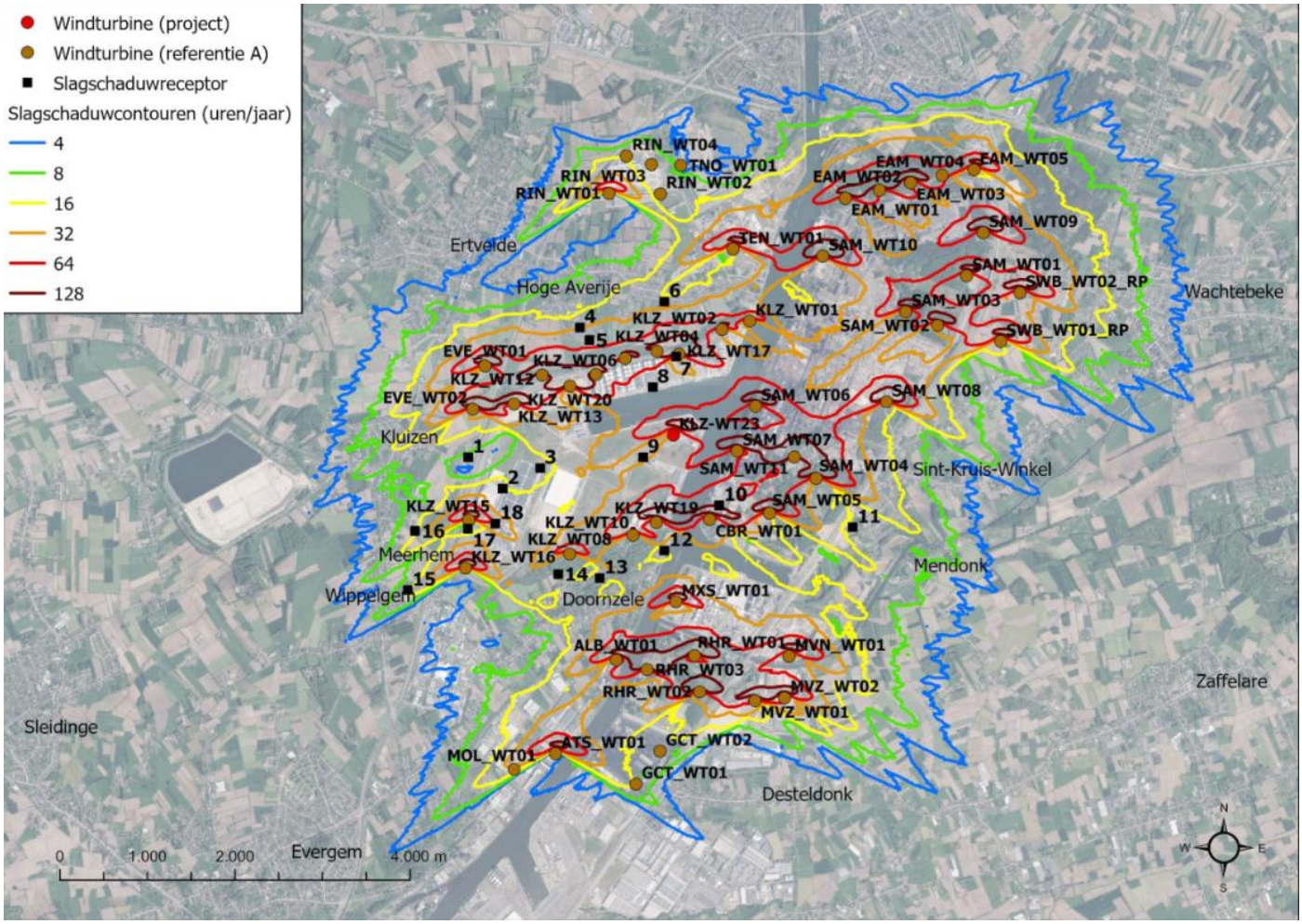
Voor de overige receptoren wordt de dagnorm gerespecteerd, ook zonder toepassing van een automatische stilstandsmodule.

Gelet de berekening vertrekt van conservatieve aannames zoals besproken in §4.1.2, zal de werkelijke slagschaduwduur voor menig receptoren (en slagschaduwgevoelige objecten tout court) beduidend minder zijn.

Door toepassing van een automatische stilstandsmodule kan de toepasselijke VLAREM II norm te allen tijde gerespecteerd worden. Hierdoor zal de hinder tijdens de exploitatie ter hoogte van de vermelde receptoren beperkt worden tot de Vlarem II-normen en zodus tot een aanvaardbaar niveau.

5.2 Geplande situatie 1A

Figuur 5-2 geeft de isocontouren weer voor de verwachte slagschaduwduur per jaar voor de geplande situatie 1A (indien er geen afregeling zou zijn van de geplande windturbine).



Figuur 5-2: Isocontouren voor de verwachte slagschaduw (uren per jaar) van de geplande situatie 1, vóór het nemen van milderende maatregelen.

Wanneer de geplande situatie 1A (project + referentiesituatie A) wordt beschouwd, dan blijken een aantal receptoren binnen de isocontour van 8 u (voor woningen) en 30 u (voor gebouwen in industriegebied, uitgezonderd woningen) verwachte potentiële slagschaduw gelegen te zijn, wanneer geen milderende maatregelen in rekening gebracht worden. Merk daarbij op dat de verwachte slagschaduwuren per jaar hoofdzakelijk bepaald wordt door de bestaande windturbines, zie daarbij referentiesituatie A in Tabel 5-3. Die geeft ook meteen aan dat zonder de gebruikelijke maatregelen slechts één receptor (receptor 8) een extra overschrijding ziet. Mits maatregelen (automatische stilstandsmodule) zal voor geen enkele receptor een overschrijding kunnen worden vastgesteld. Ter verduidelijking receptor 8 (Christoffel Columbuslaan 23) is gelegen in industriegebied op circa 600 meter ten noorden van het project aan de overzijde van het dok Kluizendok en heeft dan ook begrijpelijkerwijs een toename in verwachte slagschaduw (mocht er wederom niet gemilderd worden).

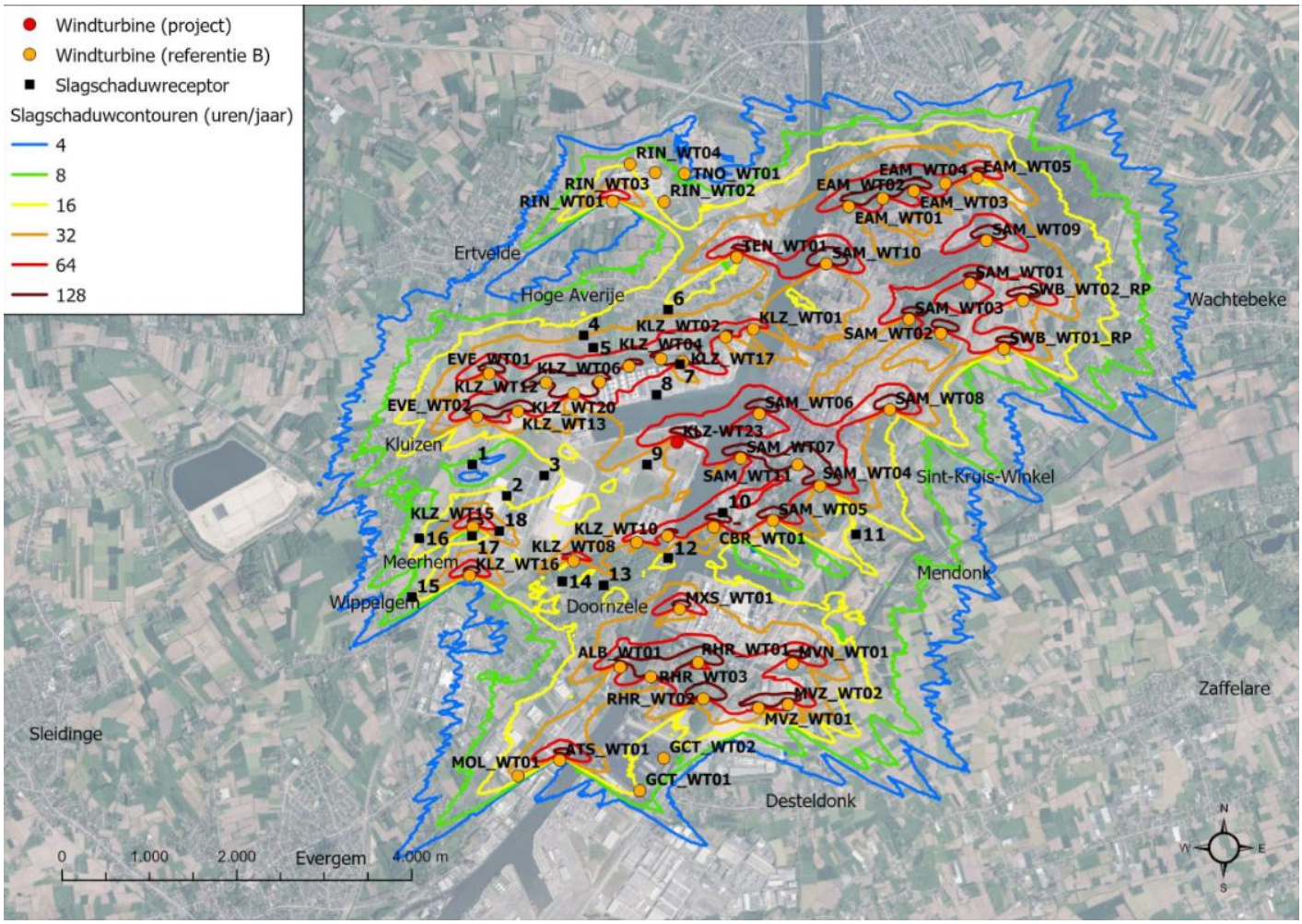
De daglimiet heeft een gelijkaardig patroon. De maximum van 30 minuten verwachte slagschaduw per dag wordt in referentiesituatie A in zes van de achttien gevallen gehaald (Tabel 5-1) en het is dan afgaand op het aantal overschrijdingen ook duidelijk dat het project hier een minimale impact op heeft.

Tabel 5-1 geeft ook aan dat er zonder milderende maatregelen geen toename is in het aantal receptoren waarbij deze norm overschreden wordt.

Door toepassing van een automatische stilstandsmodule kan de toepasselijke VLAREM II norm te allen tijde gerespecteerd worden. Hierdoor zal de hinder tijdens de exploitatie ter hoogte van de vermelde receptoren beperkt worden tot de Vlarem II-normen en zodus tot een aanvaardbaar niveau.

5.3 Geplande situatie 1B

Figuur 5-3 geeft de isocontouren weer voor de verwachte slagschaduwduur per jaar voor de geplande situatie 1B (indien er geen afregeling zou zijn van de geplande windturbine).



Figuur 5-3: Isocontouren voor de verwachte slagschaduw (uren per jaar) van de geplande situatie 1B (voor het nemen van milderende maatregelen).

Geplande situatie 1A en 1B zijn quasi hetzelfde op de situatie van KLZ-WT19 en KLZ-WT11 na. Het is dan ook evident dat de verwachte slagschaduw dezelfde zal zijn behalve op plaatsen die beïnvloed worden door de twee windturbines. Vandaar dat hier enkel gekeken wordt naar de verwachte slagschaduw binnen die context.

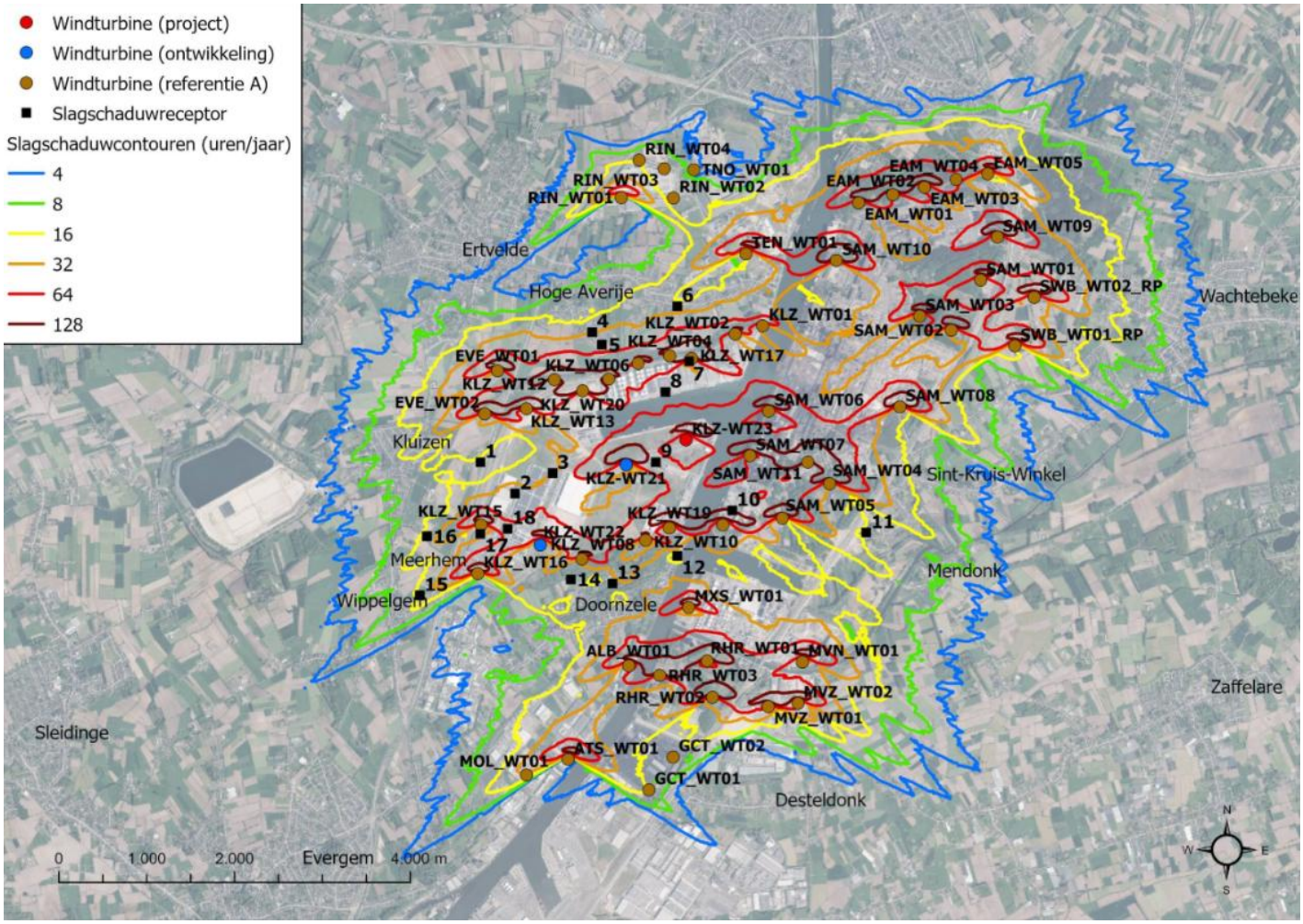
Deze nagenoeg identieke situatie vertaalt zich dan ook in zeer gelijkaardige verwachte slagschaduwuren per dag en per jaar. Behalve de precieze waarden zijn het ook telkens dezelfde receptoren die (niet gemilderd) voldoen en niet voldoen aan de normen.

In geplande situatie 1B wordt KLZ-WT19 niet gebouwd en blijft KLZ-WT11 operationeel wat betekent dat er slagschaduw is van relatief kleine windturbine KLZ-WT11 (rotor 72m tiphoogte 92m) in plaats van die van de voorziene vergunde windturbine KLZ-WT19 met rotor 168m en tiphoogte 250m. Dit vertaalt zich dan ook naar een kleiner invloedsgebied met een beperkter cumulatief effect op de slagschaduwuren. Een vergelijking tussen Tabel 5-3 en Tabel 5-4 en tussen Tabel 5-1 en Tabel 5-2 toont dan ook aan dat verschillende receptoren in geplande situatie 1B minder verwachte slagschaduwuren hebben en dat zowel per dag als per jaar alhoewel dit op jaarbasis zich logischerwijs cumulatief meer uit.

Door toepassing van een automatische stilstandsmodule kan de toepasselijke VLAREM II norm te allen tijde gerespecteerd worden. Hierdoor zal de hinder tijdens de exploitatie ter hoogte van de vermelde receptoren beperkt worden tot de Vlarem II-normen en zodus tot een aanvaardbaar niveau.

5.4 Geplande situatie 2A

Figuur 5-4 geeft de isocontouren weer voor de verwachte slagschaduwduur per jaar voor de geplande situatie 1B (indien er geen afregeling zou zijn van de geplande windturbine).



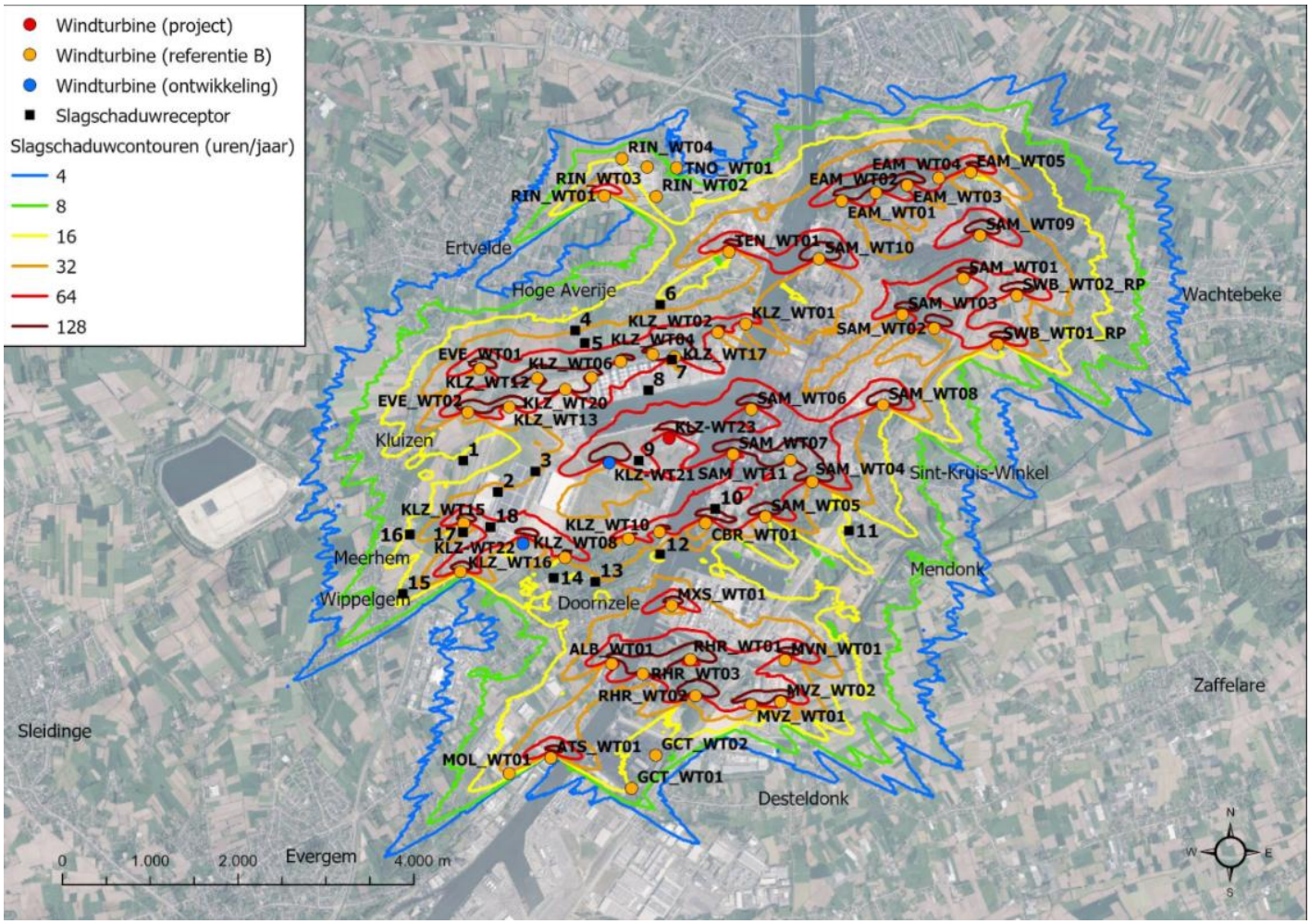
Figuur 5-4 geeft de isocontouren weer voor de verwachte slagschaduwduur voor de geplande situatie 2A (voor het nemen van milderende maatregelen).

Het betreft het project, referentiesituatie A en de relevante windturbines in ontwikkeling (KLZ-WT21 en KLZ-WT22). In geplande situatie 2A is te zien (Figuur 5-4) dat de jaarlijkse norm overschreden wordt bij bijna elke receptor (uitgezonderd receptor 17). De ontwikkeling van twee andere windturbines in Kluizendok zorgt ervoor dat er meer receptoren in en rond industriegebied Kluizendok zowel qua daglimiet als jaarlimiet een overschrijding kent. Dit is van uitgaand dat ook bestaande windturbines niet gemilderd worden.

Door toepassing van een automatische stilstandsmodule kan de toepasselijke VLAREM II norm te allen tijde gerespecteerd worden. Hierdoor zal de hinder tijdens de exploitatie ter hoogte van de vermelde receptoren beperkt worden tot de Vlarem II-normen en zodus tot een aanvaardbaar niveau.

5.5 Geplande situatie 2B

Figuur 5-5 geeft de isocontouren weer voor de verwachte slagschaduwduur per jaar voor de geplande situatie 1B (indien er geen afregeling zou zijn van de geplande windturbine).



Figuur 5-5: Isocontouren voor de verwachte slagschaduw (uren per jaar) van de geplande situatie 2B, vóór het nemen van milderende maatregelen.

Geplande situatie 2B behelst project, referentiesituatie B en de relevante windturbines in ontwikkeling. Dit maakt dat het in se dezelfde cumulatieve slagschaduweffecten heeft als in 2A afgezien de lokale impact van KLZ-WT11 en KLZ-WT19. Om de lokale impact qua verwachte slagschaduw van het niet realiseren van KLZ-WT19 en dus behouden van KLZ-WT11 te begrijpen kan teruggegrepen worden naar §5.3.

Voor alle scenario's kan altijd vanuit gegaan worden van volgende:

Door toepassing van een automatische stilstandsmodule kan de toepasselijke VLAREM II norm te allen tijde gerespecteerd worden. Hierdoor zal de hinder tijdens de exploitatie ter hoogte van de vermelde receptoren beperkt worden tot de Vlarem II-normen en zodus tot een aanvaardbaar niveau.

5.6 Detailbespreking van enkele representatieve receptoren

Gezien niet geweten is of dat de windturbines in ontwikkeling effectief zullen worden gerealiseerd, wordt er gewerkt met geplande situatie 1A voor het bespreken van enkele representatieve receptoren met name receptor 8 en receptor 12.

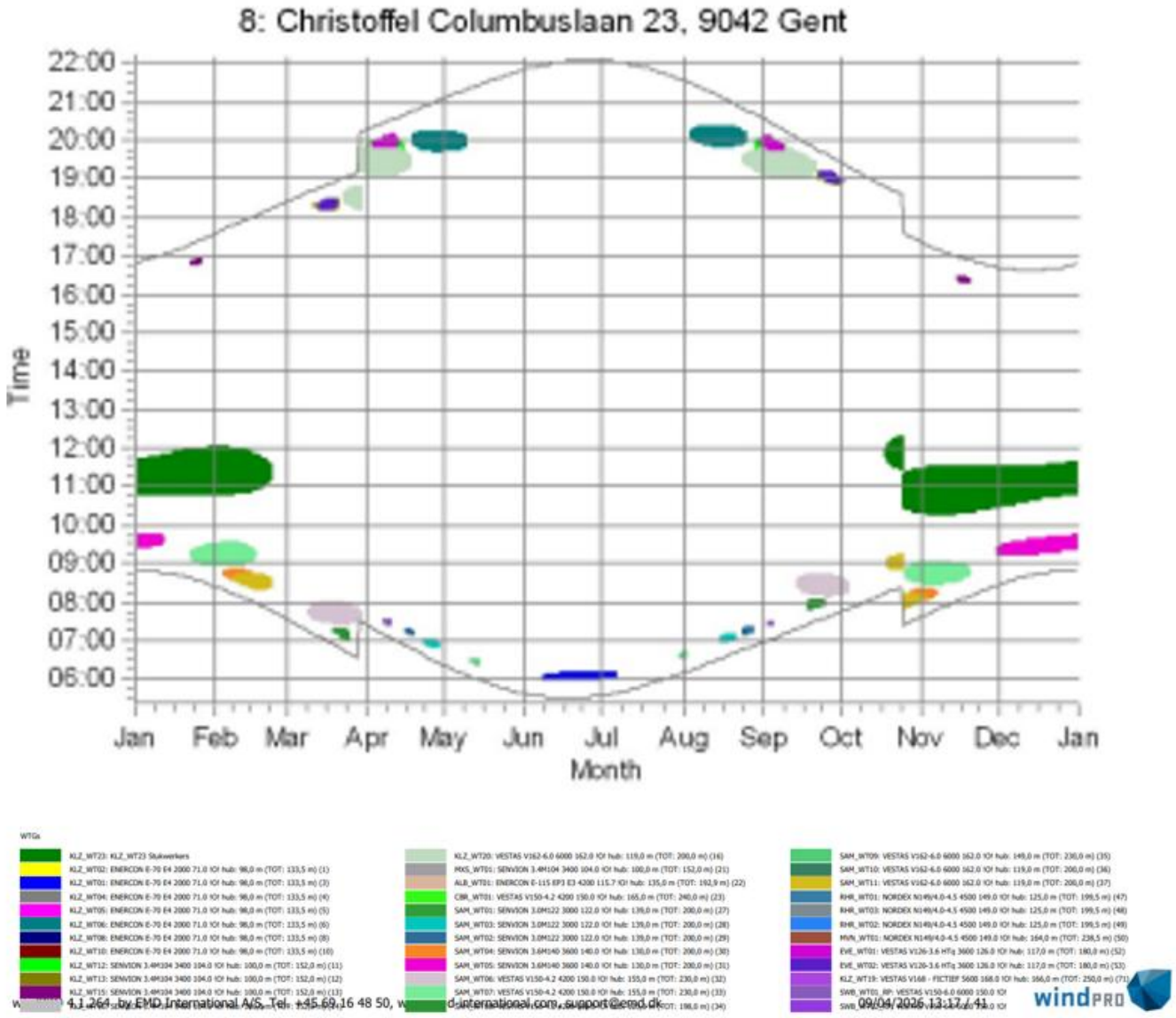
Receptor 8 – Bedrijf ter hoogte van Cristoffel Columbuslaan 23 (Gent)

Receptor 8 is gelegen ten noorden van KLZ-WT23. De slagschaduwkalender is weergegeven in Figuur 5-6. De resultaten voor deze receptor worden in onderstaande Tabel 5-5 samengevat.

Tabel 5-5: Resultaten slagschaduwmodellering voor receptor 8.

Aspect	Resultaat
Maanden met slagschaduw	Hele jaar
Momenten van de dag	Ochtend, Voormiddag, Middag, Avond
Door welke windturbine (hoofdzakelijk)	KLZ-WT23, KLZ-WT20, KLZ-WT06, SAM-WT07, SAM-WT06, SAM-WT05, SAM-WT04
VLAREM jaarnorm gerespecteerd?	Neen (ca. 41u 52min/jaar bij geplande situatie 1A)
VLAREMdagnorm gerespecteerd?	Neen (max. 1u 45min/dag bij geplande situatie 1A)
Nood aan milderende maatregelen?	Ja

De slagschaduwkalender is representatief voor een aantal andere receptoren. Dit geldt onder meer voor de receptoren gelegen ter hoogte van de Christoffel Columbuslaan. De receptor kan vooral slagschaduw ondervinden in de ochtend, voormiddag en avond doorheen het jaar. KLZ-WT23 geeft mogelijks slagschaduw gedurende de middag en dat in de wintermaanden. Ter hoogte van receptor 7 wordt naar verwachting ook niet voldaan aan de jaarlimiet en daglimiet wat betreft geplande situatie 1A.



Figuur 5-6: Slagschaduwkalender vóór het nemen van milderende maatregelen, ter hoogte van receptor 8, gelegen ten noorden van het project.

Receptor 12 – Woning ter hoogte van Terdonkkaai 8 (Gent)

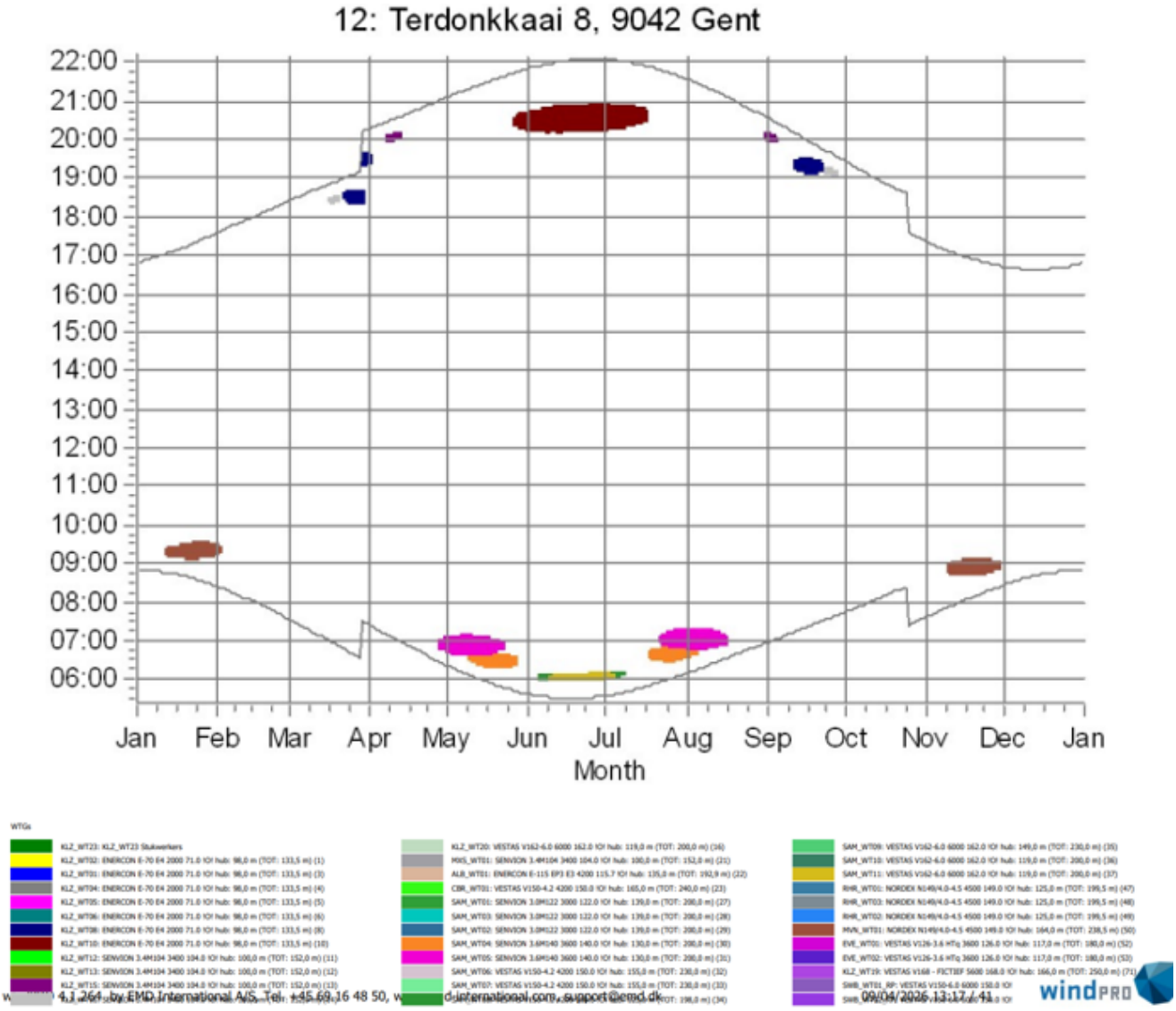
Receptor 12 is gelegen ten zuiden van het project. De slagschaduwkalender is weergegeven in Figuur 5-7. De resultaten voor deze receptor worden in onderstaande Tabel 5-6 samengevat.

Tabel 5-6: Resultaten slagschaduwmodellering voor receptor 12.

Aspect	Resultaat
Maanden met slagschaduw	Januari, April, Mei, Juni, Juli, Augustus, September, Oktober, November
Momenten van de dag	Avond (ca. 18:00 – 21:00 uur) Ochtend (ca. 6:00 – 7:15 uur) en (ca. 9:00 – 9:30)
Door welke windturbine (hoofdzakelijk)	KLZ-WT10, SAM-WT05, SAM-WT04, MVN-WT01, KLZ-WT08

Aspect	Resultaat
VLAREM jaarnorm gerespecteerd?	Nee (max. ca. 16u 58 min/jaar bij geplande situatie 1A)
Vlarem dagnorm gerespecteerd?	Nee (max. ca. 43 min/dag bij geplande situatie 1A)
Nood aan milderende maatregelen?	**Ja**

De slagschaduwkalender is representatief voor een aantal andere receptoren. Dit geldt onder meer voor de receptoren 13 en 14 gelegen ter hoogte van Doornzele. Deze receptoren ondervinden geen slagschaduw van het project (KLZ-WT23). De receptoren kunnen vooral slagschaduw ondervinden van de bestaande en vergunde windturbines in de ochtend en avond tijdens bijna alle maanden. Ter hoogte van deze receptoren wordt niet voldaan aan de jaarlimiet en daglimiet en vergen dan ook mildering.



Figuur 5-7: Slagschaduwkalender vóór het nemen van milderende maatregelen, ter hoogte van receptor 12, gelegen ten zuiden van van het project.

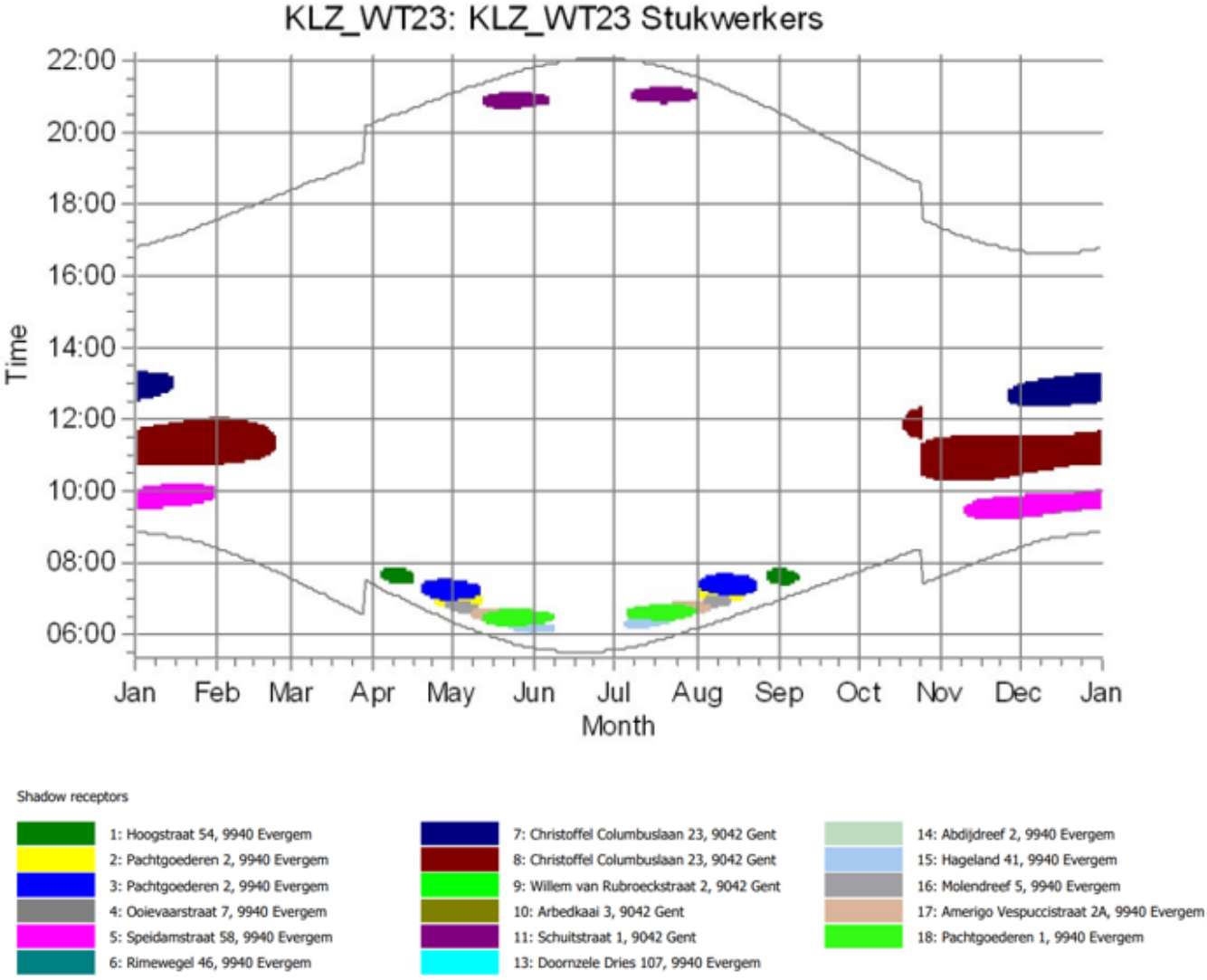
5.7 Bespreking van slagschaduweffecten per windturbine

De mogelijke slagschaduw die door een individuele windturbine kan veroorzaakt worden ter hoogte van verschillende receptoren, kan eveneens grafisch voorgesteld worden aan de hand van een slagschaduwkalender. De verschillende kleurvakken geven aan wanneer slagschaduw kan op treden ter hoogte van de verschillende geselecteerde receptoren. Dergelijke slagschaduwkalenders geven een eerste beeld van de stilstanden (slagschaduwmodule) op de energieproductie.

In Annex B: Gedetailleerde modelleringen, bij deze studie zijn de slagschaduwkalenders opgenomen van alle geplande en bestaande/vergunde windturbines.

Windturbine KLZ-WT23

In Figuur 5-8 wordt de slagschaduwkalender voor de geplande windturbine KLZ-WT23 van voorliggend project getoond. Er dient benadrukt te worden dat deze figuur voor elke receptor het theoretisch maximaal aantal uren slagschaduw in een gemiddeld jaar voor afregeling van de windturbine toont. Dit is dus een **worst-case weergave**. Anderzijds zijn niet alle slagschaduwgevoelige objecten opgenomen in de figuur maar slechts een selectie van representatieve receptoren. Toch kan deze figuur reeds een idee geven van de grootte van de impact inzake slagschaduw van de geplande windturbine.



Figuur 5-8: Grafische voorstelling van de slagschaduwkalender voor de geplande windturbine KLZ-WT23 voor afregeling van de windturbine.

De slagschaduwkalender (Figuur 5-8) geeft aan dat gedurende de wintermaanden er slagschaduw kan zijn tijdens de voormiddag en middag (rond 9:45 tot 13:30) in receptoren 5, 7, 8. Van april tot september is er slagschaduw

mogelijk ‘s ochtends tussen 6:00 en 8:00 in receptoren: 1,2, 3,15, 16, 17, 18. In mei en juli is er slagschaduw mogelijk in receptor 11 avonds tussen ongeveer 20:30 en 21:30.

6 Automatische stilstandsmodule

Op basis van voorliggende slagschaduwstudie zijn milderende maatregelen noodzakelijk. Gezien er verschillende receptoren gelegen zijn binnen de 4-uur slagschaduwcontour van het project, dienen de windturbines conform artikel 5.20.6.2.1. van VLAREM uitgerust te worden met een automatische stilstandsmodule. Door het toepassen van deze module zullen de VLAREM-slagschaduwnormen (zie paragraaf §3) ter hoogte van alle slagschaduwgevoelige objecten ten alle tijden gerespecteerd worden. Alle relevante slagschaduwgevoelige objecten binnen de isocontour van 4 uur, zullen opgenomen worden in het systeem van de logboeken.

De slagschaduwmodule is in staat om de aanwezigheid van slagschaduw en zijn locatie (de projectie van de slagschaduw op slagschaduwgevoelige objecten) vast te stellen alsook rekening te houden met eventuele andere windturbines in de omgeving (cumulatieve effecten). Bovendien bevat de slagschaduwmodule ook de nodige gegevens om te bepalen wanneer de slagschaduwnorm dreigt overschreden te worden voor een bepaald slagschaduwgevoelig object. Hiertoe worden de locaties van alle relevante slagschaduwgevoelige objecten geprogrammeerd in de slagschaduwmodule. De slagschaduwmodule ‘kent’ op deze manier alle relevante slagschaduwgevoelige objecten. Wanneer de slagschaduwnorm dreigt overschreden te worden voor één van deze objecten, wordt de windturbine automatisch tot stilstand gebracht. De slagschaduwmodule registreert automatisch de slagschaduwduur en de duur van de stilstand voor elk relevant object. Zie ook ‘Annex A: Automatische stilstandsmodule’ voor meer informatie over deze module.

Door toepassing van het slagschaduwdetectiesysteem met automatische stilstand module zal de slagschaduwduur beperkt worden tot een maximum van 8 uur effectieve slagschaduw per jaar en een maximum van dertig minuten effectieve slagschaduw per dag voor woningen en tot een maximum van 30 uur effectieve slagschaduw per jaar en een maximum van dertig minuten effectieve slagschaduw per dag voor slagschaduwgevoelige objecten in industriegebied (uitz. woningen). Voor het overige dringen er zich geen milderende maatregelen op.

Na het verkrijgen van de vergunningen en ter voorbereiding van de operationele fase kunnen de noodzakelijke maatregelen[8] verfijnd worden.

[8] Andere voorbeelden van milderende maatregelen, zijn het stilleggen van de windturbine (s) bij bepaalde omstandigheden en fysieke afscherming. Fysieke afscherming omvat bijvoorbeeld het plaatsen van zonnewering, maar ook het aanleggen van een permanente afscherming zoals een groenscherm, beplanting, etc. Fysieke afscherming wordt zelden toegepast en slechts in specifieke omstandigheden en in samenspraak met de potentieel gehinderde

7 Conclusies slagschaduwimpact

In deze slagschaduwstudie werd de verwachte slagschaduw ingeschat ter hoogte van een aantal geselecteerde slagschaduwgevoelige receptoren in de omgeving van de geplande windturbine van Luminus.

Voor **het project** (KLZ-WT23*)* kan besloten worden dat de VLAREM II jaarnormen voor geen enkele receptor overschreden wordt. Dit betekent dat geen enkel slagschaduwgevoelig object meer slagschaduwuren zal ontvangen dan voorschreven en dat zonder toepassing van milderende maatregelen. De VLAREM II dagnorm daarentegen vergt wel de toepassing van milderende maatregelen, aangezien die ter hoogte van sommige beschouwde receptoren niet gerespecteerd wordt. De overschrijdingen van de norm situeert zich vooral ter hoogte van de receptoren van gebouwen in industriegebied ten noorden van het project.

De windturbines in **referentiesituatie A en B** zorgen echter reeds voor slagschaduw en, indien er geen milderende maatregelen zouden worden toegepast, zelfs voor een overschrijding van de jaar- en/of dagnorm ter hoogte van een aantal beschouwde receptoren.

Ook in de **geplande situatie 1A en 1B** wordt bijgevolg verwacht dat, indien er geen milderende maatregelen zouden worden toegepast, de jaarlimiet voor het aantal uren verwachte slagschaduw en/of de dagnorm van maximaal 30 minuten verwachte slagschaduw per dag overschreden kunnen worden ter hoogte van een deel van de beschouwde representatieve receptoren.

Tenslotte, in de **geplande situatie 2A en 2B** wordt ook verwacht dat er zonder milderende maatregelen de jaarnorm en de dagnorm in de receptoren overschreden wordt.

De toepasselijke VLAREM II-normen ter hoogte van alle receptoren zullen te echter allen tijde gerespecteerd worden door toepassing van een automatische stilstandsmodule. Hierdoor blijft eventuele hinder door slagschaduw beperkt tot een aanvaardbaar niveau.

Luminus verbindt er zich derhalve toe de geplande windturbine uit te rusten met een automatische stilstandsmodule, zoals ook wordt vereist overeenkomstig de bepalingen van VLAREM II. **Hierdoor kunnen de toepasselijke jaarnormen en dagnormen uit VLAREM II ter hoogte van alle receptoren te allen tijde gerespecteerd worden.**

Annex A: Automatische stilstandsmodule

Automatische stilstandsmodule

Doelstelling

Via een automatisch controlesysteem dat aanwezig is op de geplande windturbines, kan gegarandeerd worden dat de VLAREM-norm van 8 u/jaar (of 30 u/jaar) en 30 min/dag wordt gerespecteerd.

De initiatiefnemer verbindt zich ertoe om voor de relevante gebouwen, gelegen binnen de 4h-contour van de geplande windturbines, de nodige mitigerende maatregelen te nemen opdat het aantal uren effectieve slagschaduw de VLAREM-norm niet zal overschrijden. De situatie wordt steeds cumulatief bekeken waardoor voor elke woning in de omgeving voldaan kan worden aan de van toepassing zijnde VLAREM-normen.

De omgeving zal bijgevolg geen extra hinder ondervinden dan de van toepassing zijnde norm.

Beschrijving automatisch management systeem voor slagschaduw (NorthTec systeem)

Input

Zowel de eventueel bestaande als de geplande windturbines worden opgeladen in het systeem op basis van GPS-posities.

Conform de VLAREM-regelgeving worden alle relevante slagschaduwgevoelige objecten gelegen binnen de 4u-slagschaduwcontour gedefinieerd en geprogrammeerd in het systeem. Elk slagschaduwgevoelig object wordt in detail gedefinieerd op basis van de oriëntatie en afmetingen van de ramen.

De reden waarom in de VLAREM-normering wordt vertrokken van de 4u-slagschaduwcontour voor het bepalen van de slagschaduwgevoelige objecten (en niet de 8u-slagschaduwcontour) en de bepaling of er al dan niet een stilstandsmodule dient aanwezig te zijn op de windturbines, is op aangeven van de weerstatistieken.

Werking

Het systeem controleert continu, op basis van datum en tijd, welk slagschaduwgevoelig object op dat ogenblik slagschaduw kan ondervinden en door welke windturbine(s) deze kan worden veroorzaakt.

Dit gebeurt in detail als volgt:

- Aan de hand van vier verticaal opgestelde lichtsensoren, die telkens op een andere zijde van een kubus geplaatst worden, wordt continu het verschil in lichtintensiteit berekend voor die sensoren. Indien er direct zonlicht is, zal er ook schaduw zijn op minstens één van de sensoren. Op basis van het verschil in lichtintensiteit tussen de sensoren wordt bepaald of er al dan niet direct zonlicht, en dus kans op slagschaduw is.
- Het automatisch controlesysteem bepaalt op basis van de werkelijke stand van de zon welke gedefinieerde slagschaduwgevoelige objecten door de rotor van de windturbine(s) slagschaduw kunnen ontvangen.

Indien er reeds bestaande windturbines aanwezig zijn in de omgeving, zullen deze in het systeem geprogrammeerd worden als steeds draaiende op momenten dat er slagschaduw kan optreden zoals hiervoor beschreven. De hoeveelheid slagschaduw die door deze bestaande windturbines op de gedefinieerde slagschaduwgevoelige objecten wordt geworpen, wordt door het systeem bepaald en dit voor alle gedefinieerde slagschaduwgevoelige objecten gelegen binnen de 4u-contour.

Het controlesysteem van de geplande windturbines houdt hiermee rekening bij de bepaling van de hoeveelheid slagschaduw die deze geplande windturbines nog bijkomend op een slagschaduwgevoelig object mogen geven, zonder de norm te overschrijden. Vooraf wordt aan de hand van de slagschaduwkalenders van de bestaande en vergunde windturbines nagegaan tijdens welke periode van het jaar de slagschaduw van deze bestaande windturbines zal optreden waardoor er kan bepaald waar de geplande windturbines dienen rekening mee te houden.

Het managementsysteem kan bij dergelijke situaties ingesteld worden met een ‘preload’ van aantal uren slagschaduw. Per slagschaduwgevoelig object wordt een niet te overschrijden norm ingesteld in het systeem. Deze voorafgaandelijke programmatie laat een optimale werking toe.

Een voorbeeld van een slagschaduwmanagementsysteem is het NorthTec systeem. Dit is een geavanceerd en betrouwbaar slagschaduwmanagementsysteem dat reeds in vele windenergieprojecten in België wordt toegepast. Dit systeem biedt garantie voor het respecteren van de VLAREM-slagschaduwnormen en maakt bovendien rapportering mogelijk.

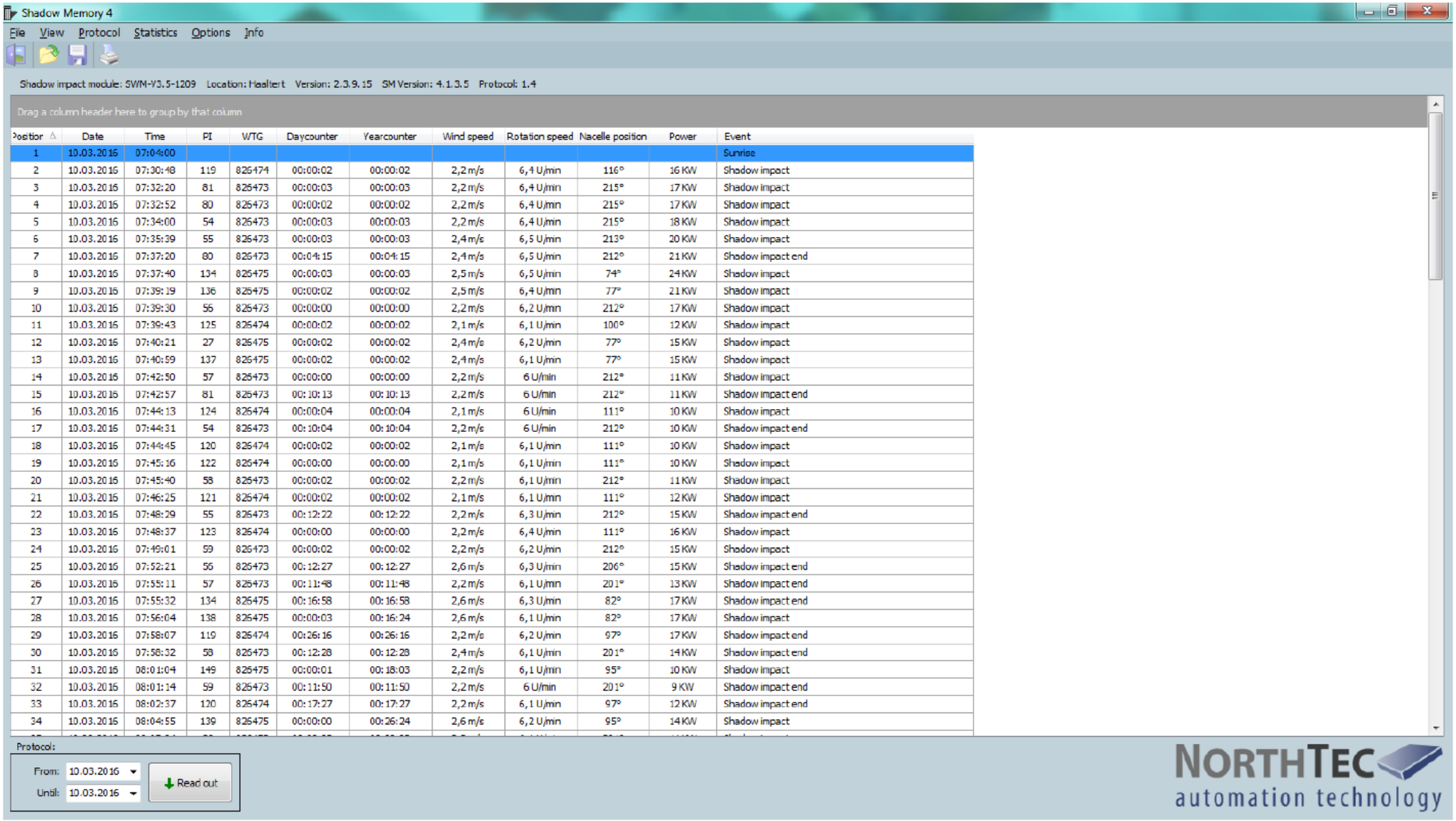
Het opleggen van een voorwaarde in de vergunning voor het implementeren van een slagschaduwmanagementsysteem waarbij rekening gehouden wordt met de nabijgelegen bestaande windturbines, zorgt voor de nodige garantie ten aanzien van het naleven van de normen.

Conclusie

Op basis van dit automatisch managementsysteem voor slagschaduw garandeert de initiatiefnemer dat de slagschaduweffecten zullen worden gemonitord en op basis hiervan mitigatie zal worden toegepast op de geplande windturbines om te voldoen aan de VLAREM-slagschaduwnormen.

Rapportering

De opvolging van de naleving van de geldende normen kan conform de sectorale VLAREM-normen gebeuren door de toezichthoudende instanties. Het gevraagde logboek zoals opgenomen in de sectorale VLAREM-voorwaarden kan uitgelezen worden uit dit automatische slagschaduwmanagementsysteem. Reeds bij vele bestaande windparken wordt dit op vandaag gebruikt en goedgekeurd door de toezichthoudende instanties. In de afbeelding hieronder volgt een voorbeeld van uitlezing (PI staat voor Point of Immission (of dus slagschaduwgevoelig object)).



Shadow Memory 4

File View Protocol Statistics Options Info

Shadow impact module: SWM-V3.5-1209 Location: Haaltert Version: 2.3.9.15 SM Version: 4.1.3.5 Protocol: 1.4

Drag a column header here to group by that column

Position	Date	Time	PI	WTG	Daycounter	Yearcounter	Wind speed	Rotation speed	Nacelle position	Power	Event
1	10.03.2016	07:04:00									Sunrise
2	10.03.2016	07:30:48	119	826474	00:00:02	00:00:02	2,2 m/s	6,4 U/min	116°	16 KW	Shadow impact
3	10.03.2016	07:32:20	81	826473	00:00:03	00:00:03	2,2 m/s	6,4 U/min	215°	17 KW	Shadow impact
4	10.03.2016	07:32:52	80	826473	00:00:02	00:00:02	2,2 m/s	6,4 U/min	215°	17 KW	Shadow impact
5	10.03.2016	07:34:00	54	826473	00:00:03	00:00:03	2,2 m/s	6,4 U/min	215°	18 KW	Shadow impact
6	10.03.2016	07:35:39	55	826473	00:00:03	00:00:03	2,4 m/s	6,5 U/min	213°	20 KW	Shadow impact
7	10.03.2016	07:37:20	80	826473	00:04:15	00:04:15	2,4 m/s	6,5 U/min	212°	21 KW	Shadow impact end
8	10.03.2016	07:37:40	134	826475	00:00:03	00:00:03	2,5 m/s	6,5 U/min	74°	24 KW	Shadow impact
9	10.03.2016	07:39:19	136	826475	00:00:02	00:00:02	2,5 m/s	6,4 U/min	77°	21 KW	Shadow impact
10	10.03.2016	07:39:30	56	826473	00:00:00	00:00:00	2,2 m/s	6,2 U/min	212°	17 KW	Shadow impact
11	10.03.2016	07:39:43	125	826474	00:00:02	00:00:02	2,1 m/s	6,1 U/min	100°	12 KW	Shadow impact
12	10.03.2016	07:40:21	27	826475	00:00:02	00:00:02	2,4 m/s	6,2 U/min	77°	15 KW	Shadow impact
13	10.03.2016	07:40:59	137	826475	00:00:02	00:00:02	2,4 m/s	6,1 U/min	77°	15 KW	Shadow impact
14	10.03.2016	07:42:50	57	826473	00:00:00	00:00:00	2,2 m/s	6 U/min	212°	11 KW	Shadow impact
15	10.03.2016	07:42:57	81	826473	00:10:13	00:10:13	2,2 m/s	6 U/min	212°	11 KW	Shadow impact end
16	10.03.2016	07:44:13	124	826474	00:00:04	00:00:04	2,1 m/s	6 U/min	111°	10 KW	Shadow impact
17	10.03.2016	07:44:31	54	826473	00:10:04	00:10:04	2,2 m/s	6 U/min	212°	10 KW	Shadow impact end
18	10.03.2016	07:44:45	120	826474	00:00:02	00:00:02	2,1 m/s	6,1 U/min	111°	10 KW	Shadow impact
19	10.03.2016	07:45:16	122	826474	00:00:00	00:00:00	2,1 m/s	6,1 U/min	111°	10 KW	Shadow impact
20	10.03.2016	07:45:40	58	826473	00:00:02	00:00:02	2,2 m/s	6,1 U/min	212°	11 KW	Shadow impact
21	10.03.2016	07:46:25	121	826474	00:00:02	00:00:02	2,1 m/s	6,1 U/min	111°	12 KW	Shadow impact
22	10.03.2016	07:48:29	55	826473	00:12:22	00:12:22	2,2 m/s	6,3 U/min	212°	15 KW	Shadow impact end
23	10.03.2016	07:48:37	123	826474	00:00:00	00:00:00	2,2 m/s	6,4 U/min	111°	16 KW	Shadow impact
24	10.03.2016	07:49:01	59	826473	00:00:02	00:00:02	2,2 m/s	6,2 U/min	212°	15 KW	Shadow impact
25	10.03.2016	07:52:21	56	826473	00:12:27	00:12:27	2,6 m/s	6,3 U/min	206°	15 KW	Shadow impact end
26	10.03.2016	07:55:11	57	826473	00:11:48	00:11:48	2,2 m/s	6,1 U/min	201°	13 KW	Shadow impact end
27	10.03.2016	07:55:32	134	826475	00:16:58	00:16:58	2,6 m/s	6,3 U/min	82°	17 KW	Shadow impact end
28	10.03.2016	07:56:04	138	826475	00:00:03	00:16:24	2,6 m/s	6,1 U/min	82°	17 KW	Shadow impact
29	10.03.2016	07:58:07	119	826474	00:26:16	00:26:16	2,2 m/s	6,2 U/min	97°	17 KW	Shadow impact end
30	10.03.2016	07:58:32	58	826473	00:12:28	00:12:28	2,4 m/s	6,1 U/min	201°	14 KW	Shadow impact end
31	10.03.2016	08:01:04	149	826475	00:00:01	00:18:03	2,2 m/s	6,1 U/min	95°	10 KW	Shadow impact
32	10.03.2016	08:01:14	59	826473	00:11:50	00:11:50	2,2 m/s	6 U/min	201°	9 KW	Shadow impact end
33	10.03.2016	08:02:37	120	826474	00:17:27	00:17:27	2,2 m/s	6,1 U/min	97°	12 KW	Shadow impact end
34	10.03.2016	08:04:55	139	826475	00:00:00	00:26:24	2,6 m/s	6,2 U/min	95°	14 KW	Shadow impact

Protocol:

From: 10.03.2016

Until: 10.03.2016

Read out

Annex B: Gedetailleerde modelleringen

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

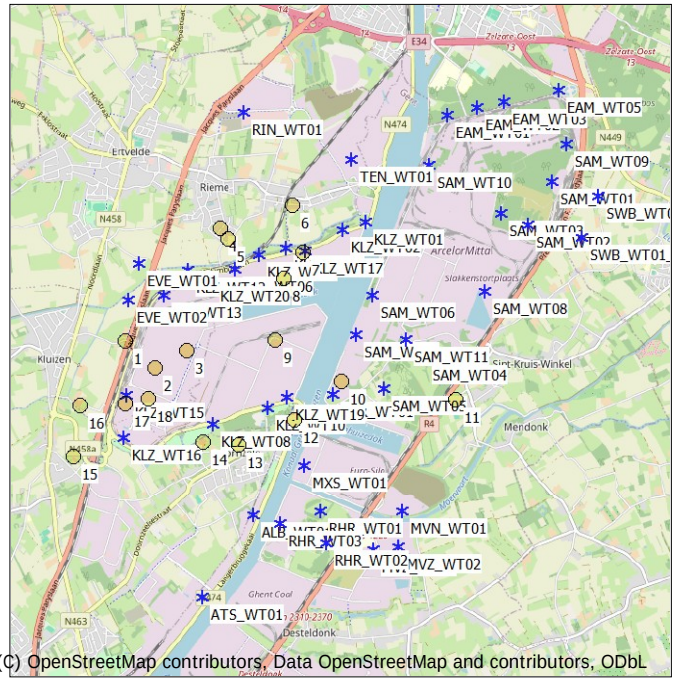
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



Scale 1:100.000

Existing WTG Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EAM_WT01	110.746	208.330	9,8	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT02	111.134	208.423	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT03	111.493	208.509	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT05	112.214	208.658	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT19	108.589	204.627	5,0	VESTAS V168 - FICTIE...	Yes	VESTAS	V168 - FICTIEF-5.600	5.600	168,0	166,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RIN_WT01	108.045	208.389	10,0	Siemens SWT-3.2-101 ...	Yes	Siemens	SWT-3.2-101-3.200	3.200	101,0	127,5	100.000	16,0
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-

To be continued on next page...

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	Ooievaarstraat 7, 9940 Evergem	107.712	206.856	6,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Speidamstraat 58, 9940 Evergem	107.822	206.713	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Rimewegel 46, 9940 Evergem	108.680	207.151	7,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Schuitstraat 1, 9042 Gent	110.830	204.575	6,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 41, 9940 Evergem	105.749	203.857	8,6	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	21:19	174	0:18	4:51
2	Pachtgoederen 2, 9940 Evergem	83:11	206	0:54	15:46
3	Pachtgoederen 2, 9940 Evergem	46:36	187	0:40	8:56
4	Ooievaarstraat 7, 9940 Evergem	150:34	265	1:39	28:13
5	Speidamstraat 58, 9940 Evergem	261:50	295	2:07	49:03
6	Rimewegel 46, 9940 Evergem	149:10	271	2:06	25:03
7	Christoffel Columbuslaan 23, 9042 Gent	181:57	319	1:37	41:50
8	Christoffel Columbuslaan 23, 9042 Gent	106:42	258	0:57	23:11
9	Willem van Rubroeckstraat 2, 9042 Gent	141:15	318	0:51	29:04
10	Arbedkaai 3, 9042 Gent	428:04	226	3:57	123:42
11	Schuitstraat 1, 9042 Gent	51:30	193	0:35	12:44
12	Terdonkkaai 8, 9042 Gent	67:31	187	0:43	16:57
13	Doornzele Dries 107, 9940 Evergem	93:17	270	0:38	21:07
14	Abdijdreef 2, 9940 Evergem	127:55	300	1:04	29:16
15	Hageland 41, 9940 Evergem	52:42	173	0:38	14:46
16	Molendreef 5, 9940 Evergem	65:25	171	0:42	15:16
17	Amerigo Vespuccistraat 2A, 9940 Evergem	53:46	171	0:50	9:11
18	Pachtgoederen 1, 9940 Evergem	237:02	304	1:28	55:47

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09/04/2026 03:07/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:40	2:19
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	4:26	0:31
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	370:29	105:42
EAM_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)	4:47	1:28
EAM_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)	1:38	0:30
EAM_WT03	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)	0:39	0:11
EAM_WT05	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)	0:00	0:00
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	29:05	6:50
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:11	4:08
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	23:51	6:45
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	19:04	4:28
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	86:42	20:30
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	61:36	12:32
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	77:09	14:14
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	29:37	5:09
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	55:26	13:58
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	84:42	16:15
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	36:24	6:48
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	287:31	71:06
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	161:20	33:11
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	86:39	15:15
KLZ_WT19	VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)	159:12	36:26
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	183:05	35:18
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:27	2:37
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	20:22	3:50
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	26:36	3:59
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	20:10	2:32
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	30:17	3:50
RIN_WT01	Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)	0:00	0:00
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:19	0:05
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:12	0:19
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	3:00	0:50
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	40:04	10:12
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	118:12	28:19
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	92:28	19:37
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	76:53	16:14
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	15:14	4:18
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:48	0:14
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	11:01	3:19
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	48:19	11:38
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:09	0:20
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:10	0:02
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	25:01	7:39

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

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SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January				February				March				April				May				June			
1	08:50		09:20 (KLZ_WT08)		08:24				07:32		07:58 (KLZ_WT19)		07:23		07:48 (SAM_WT07)		06:20				05:36		06:04 (KLZ_WT05)	
	16:48	5	09:25 (KLZ_WT08)		17:35				18:25	16	08:14 (KLZ_WT19)		20:17	6	07:54 (SAM_WT07)		21:06				21:51	2	06:06 (KLZ_WT05)	
2	08:50		09:20 (KLZ_WT08)		08:23		08:48 (MVN_WT01)		07:30		07:53 (CBR_WT01)		07:21				06:18				05:36		06:04 (KLZ_WT05)	
	16:49	6	09:26 (KLZ_WT08)		17:37	1	08:49 (MVN_WT01)		18:27	15	08:13 (KLZ_WT19)		20:19				21:08				21:52	3	06:07 (KLZ_WT05)	
3	08:49		09:20 (KLZ_WT08)		08:21		08:46 (MVN_WT01)		07:28		07:51 (CBR_WT01)		07:19				06:17				05:35		06:03 (KLZ_WT05)	
	16:50	7	09:27 (KLZ_WT08)		17:38	2	08:48 (MVN_WT01)		18:28	16	08:12 (KLZ_WT19)		20:20				21:10				21:53	3	06:06 (KLZ_WT05)	
4	08:49		09:19 (KLZ_WT08)		08:19		08:45 (MVN_WT01)		07:26		07:49 (CBR_WT01)		07:17				06:15				05:34		06:02 (KLZ_WT05)	
	16:51	7	09:26 (KLZ_WT08)		17:40	1	08:46 (MVN_WT01)		18:30	14	08:10 (KLZ_WT19)		20:22				21:11				21:54	4	06:06 (KLZ_WT05)	
5	08:49		09:19 (KLZ_WT08)		08:18				07:24		07:47 (CBR_WT01)		07:14				06:13				05:34		06:02 (KLZ_WT05)	
	16:53	8	09:27 (KLZ_WT08)		17:42				18:32	8	07:55 (CBR_WT01)		20:24				21:13				21:55	5	06:07 (KLZ_WT20)	
6	08:49		09:18 (KLZ_WT08)		08:16				07:22		07:44 (CBR_WT01)		07:12				06:11				05:33		06:01 (KLZ_WT05)	
	16:54	9	09:27 (KLZ_WT08)		17:44				18:33	10	07:54 (CBR_WT01)		20:25				21:14				21:56	6	06:07 (KLZ_WT20)	
7	08:48		09:18 (KLZ_WT08)		08:15				07:19		07:43 (CBR_WT01)		07:10				06:09				05:32		06:01 (KLZ_WT05)	
	16:55	10	09:28 (KLZ_WT08)		17:46				18:35	10	07:53 (CBR_WT01)		20:27				21:16				21:57	7	06:08 (KLZ_WT20)	
8	08:48		09:17 (KLZ_WT08)		08:13				07:17		07:45 (CBR_WT01)		07:08				06:08				05:32		06:01 (KLZ_WT06)	
	16:56	11	09:28 (KLZ_WT08)		17:47				18:37	6	07:51 (CBR_WT01)		20:29				21:18				21:57	9	06:10 (KLZ_WT20)	
9	08:48		09:18 (KLZ_WT08)		08:11				07:15				07:06				06:06				05:31		06:00 (KLZ_WT06)	
	16:58	11	09:29 (KLZ_WT08)		17:49				18:39				20:30				21:19				21:58	9	06:09 (KLZ_WT20)	
10	08:47		09:18 (KLZ_WT08)		08:09				07:13		07:35 (SAM_WT05)		07:03				06:04				05:31		06:00 (KLZ_WT06)	
	16:59	11	09:29 (KLZ_WT08)		17:51				18:40	1	07:36 (SAM_WT05)		20:32				21:21				21:59	10	06:10 (KLZ_WT20)	
11	08:47		09:15 (RHR_WT01)		08:08				07:11		07:33 (SAM_WT05)		07:01		07:24 (SAM_WT06)		06:03		06:28 (KLZ_WT17)		05:31		06:00 (KLZ_WT06)	
	17:00	12	09:29 (KLZ_WT08)		17:53				18:42	2	07:35 (SAM_WT05)		20:34	1	07:25 (SAM_WT06)		21:22	1	06:29 (KLZ_WT17)		22:00	11	06:11 (KLZ_WT20)	
12	08:46		09:15 (RHR_WT01)		08:06				07:08				06:59		07:21 (SAM_WT06)		06:01		06:26 (KLZ_WT17)		05:30		05:59 (KLZ_WT06)	
	17:02	11	09:29 (KLZ_WT08)		17:55				18:44				20:35	3	07:24 (SAM_WT06)		21:24	3	06:29 (KLZ_WT17)		22:00	12	06:11 (KLZ_WT20)	
13	08:45		09:14 (RHR_WT01)		08:04				07:06				06:57		07:19 (SAM_WT06)		06:00		06:25 (KLZ_WT17)		05:30		05:59 (KLZ_WT06)	
	17:03	10	09:29 (KLZ_WT08)		17:56				18:45				20:37	5	07:24 (SAM_WT06)		21:25	4	06:29 (KLZ_WT17)		22:01	12	06:11 (KLZ_WT20)	
14	08:45		09:13 (RHR_WT01)		08:02		08:26 (KLZ_WT10)		07:04				06:55		07:17 (SAM_WT06)		05:58		06:23 (KLZ_WT17)		05:30		05:59 (KLZ_WT06)	
	17:05	8	09:28 (KLZ_WT08)		17:58	2	08:28 (KLZ_WT10)		18:47				20:39	6	07:23 (SAM_WT06)		21:27	5	06:28 (KLZ_WT17)		22:02	13	06:12 (KLZ_WT20)	
15	08:44				08:00		08:24 (KLZ_WT10)		07:02				06:53		07:15 (SAM_WT06)		05:56		06:22 (KLZ_WT17)		05:30		05:59 (KLZ_WT06)	
	17:06				18:00	3	08:27 (KLZ_WT10)		18:49				20:40	6	07:21 (SAM_WT06)		21:28	6	06:28 (KLZ_WT17)		22:02	13	06:12 (KLZ_WT20)	
16	08:43				07:58		08:22 (KLZ_WT10)		06:59				06:50				05:55		06:21 (KLZ_WT17)		05:30		05:59 (KLZ_WT06)	
	17:08				18:02	4	08:26 (KLZ_WT10)		18:51				20:42				21:30	7	06:28 (KLZ_WT17)		22:03	14	06:13 (KLZ_WT20)	
17	08:42				07:57				06:57				06:48				05:54		06:19 (KLZ_WT17)		05:30		05:59 (KLZ_WT06)	
	17:09				18:04				18:52				20:43				21:31	8	06:27 (KLZ_WT17)		22:03	14	06:13 (KLZ_WT20)	
18	08:41				07:55				06:55				06:46				05:52		06:18 (KLZ_WT17)		05:30		05:59 (KLZ_WT06)	
	17:11				18:05				18:54				20:45				21:33	8	06:26 (KLZ_WT17)		22:04	14	06:13 (KLZ_WT20)	
19	08:40				07:53				06:53				06:44				05:51		06:17 (KLZ_WT17)		05:30		05:59 (KLZ_WT06)	
	17:12				18:07				18:56				20:47				21:34	8	06:25 (KLZ_WT17)		22:04	14	06:13 (KLZ_WT20)	
20	08:39				07:51				06:50				06:42				05:49		06:19 (KLZ_WT17)		05:30		05:59 (KLZ_WT06)	
	17:14				18:09				18:57				20:48				21:35	5	06:24 (KLZ_WT17)		22:04	14	06:13 (KLZ_WT20)	
21	08:38				07:49				06:48				06:40				05:48				05:30		05:59 (KLZ_WT06)	
	17:16				18:11				18:59				20:50				21:37				22:04	15	06:14 (KLZ_WT20)	
22	08:37				07:47		08:10 (KLZ_WT19)		06:46				06:38				05:47				05:30		06:00 (KLZ_WT06)	
	17:17				18:12	2	08:12 (KLZ_WT19)		19:01				20:52				21:38				22:05	14	06:14 (KLZ_WT20)	
23	08:36				07:45		08:08 (KLZ_WT19)		06:44				06:36				05:46				05:30		06:00 (KLZ_WT06)	
	17:19				18:14	6	08:14 (KLZ_WT19)		19:02				20:53				21:40				22:05	14	06:14 (KLZ_WT20)	
24	08:35				07:43		08:06 (KLZ_WT19)		06:41				06:34				05:44				05:31		06:00 (KLZ_WT06)	
	17:21				18:16	9	08:15 (KLZ_WT19)		19:04				20:55				21:41				22:05	14	06:14 (KLZ_WT20)	
25	08:34				07:41		08:04 (KLZ_WT19)		06:39				06:32				05:43				05:31		06:01 (KLZ_WT06)	
	17:22				18:18	11	08:15 (KLZ_WT19)		19:06				20:57				21:42				22:05	14	06:15 (KLZ_WT20)	
26	08:32				07:39		08:02 (KLZ_WT19)		06:37				06:30				05:42				05:31		06:01 (KLZ_WT06)	
	17:24				18:20	14	08:16 (KLZ_WT19)		19:07				20:58				21:43				22:05	14	06:15 (KLZ_WT20)	
27	08:31				07:36		08:00 (KLZ_WT19)		06:35		06:57 (SAM_WT11)		06:28				05:41				05:32		06:02 (KLZ_WT06)	
	17:26				18:21	16	08:16 (KLZ_WT19)		19:09	1	06:58 (SAM_WT11)		21:00				21:45				22:05	13	06:15 (KLZ_WT20)	
28	08:30				07:34		07:57 (KLZ_WT19)		06:32		06:55 (SAM_WT07)		06:26				05:40				05:32		06:02 (KLZ_WT06)	
	17:28				18:23	18	08:15 (KLZ_WT19)		19:10	3	06:58 (SAM_WT07)		21:01				21:46				22:05	13	06:15 (KLZ_WT20)	
29	08:28								07:30		07:52 (SAM_WT07)		06:24				05:39				05:33		06:03 (KLZ_WT06)	
	17:29								20:12	5	07:57 (SAM_WT07)		21:03				21:47				22:05	13	06:16 (KLZ_WT20)	
30	08:27								07:28		07:50 (SAM_WT07)		06:22				05:38				05:33		06:03 (KLZ_WT06)	
	17:31								20:14	6	07:56 (SAM_WT07)		21:05				21:48				22:05	12	06:15 (KLZ_WT20)	
31	08:26								07:26		07:48 (SAM_WT07)						05:37		06:05 (KLZ_WT05)					
	17:33								20:15	8	07:56 (SAM_WT07)						21:49	1	06:06 (KLZ_WT05)					
Potential sun hours	262				279				367				415				482				495			
Total, worst case		126				89				121				27				56				325		
Sun reduction		0,25				0,30				0,38				0,46				0,46				0,44		
Oper. time red.		0,97				0,97				0,97				0,97				0,97				0,97		
Wind dir. red.		0,53				0,55				0,57				0,64				0,70				0,71		
Total reduction		0,13				0,16				0,21				0,29				0,31				0,31		
Total, real		16				14				25				8				17				100		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	1	07:24 (SAM_WT06)	19:25			17:21			16:42	12	09:11 (KLZ_WT08)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59			07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31			19:23	2	08:13 (SAM_WT05)	17:19			16:42	11	09:12 (KLZ_WT08)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00			07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29			19:21	2	08:14 (SAM_WT05)	17:17			16:41	11	09:12 (KLZ_WT08)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02			07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27			19:19			17:16			16:40	11	09:13 (KLZ_WT08)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03			07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24			19:17	4	08:27 (CBR_WT01)	17:14			16:40	10	09:13 (KLZ_WT08)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05			07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22			19:14	8	08:28 (CBR_WT01)	17:12			16:40	9	09:13 (KLZ_WT08)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07			07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20			19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	8	09:14 (KLZ_WT08)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08			07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18			19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	8	09:15 (KLZ_WT08)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10			07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16			19:08	10	08:41 (KLZ_WT19)	17:07			16:39	7	09:15 (KLZ_WT08)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11			07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13			19:05	15	08:45 (KLZ_WT19)	17:06			16:38	6	09:15 (KLZ_WT08)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	6	07:46 (SAM_WT07)	19:03	17	08:47 (KLZ_WT19)	17:04			16:38	5	09:15 (KLZ_WT08)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02		08:32 (KLZ_WT19)	07:56			08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	8	07:47 (SAM_WT07)	19:01	16	08:48 (KLZ_WT19)	17:03			16:38	4	09:15 (KLZ_WT08)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04		08:31 (KLZ_WT19)	07:57			08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	7	07:48 (SAM_WT07)	18:59	17	08:48 (KLZ_WT19)	17:01			16:38	4	09:16 (KLZ_WT08)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06		08:31 (KLZ_WT19)	07:59			08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	5	07:47 (SAM_WT07)	18:57	17	08:48 (KLZ_WT19)	17:00			16:38	3	09:16 (KLZ_WT08)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07		08:33 (KLZ_WT19)	08:01			08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	3	07:47 (SAM_WT07)	18:55	15	08:48 (KLZ_WT19)	16:59			16:38	2	09:16 (KLZ_WT08)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09		08:35 (KLZ_WT19)	08:03			08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	1	07:46 (SAM_WT07)	18:53	13	08:48 (KLZ_WT19)	16:57			16:38	2	09:17 (KLZ_WT08)
17	05:49			06:34			07:22			08:11		08:36 (KLZ_WT19)	08:04			08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57			18:50	10	08:46 (KLZ_WT19)	16:56			16:39	1	09:17 (KLZ_WT08)
18	05:50			06:35			07:24			08:13		08:38 (KLZ_WT19)	08:06			08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55			18:48	8	08:46 (KLZ_WT19)	16:55			16:39	1	09:17 (KLZ_WT08)
19	05:51			06:37			07:25			08:14		08:40 (KLZ_WT19)	08:08			08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53			18:46	5	08:45 (KLZ_WT19)	16:53			16:39	1	09:18 (KLZ_WT08)
20	05:53			06:38			07:27			08:16			08:09			08:46		
	21:50			20:59			19:50			18:44			16:52			16:39		
21	05:54			06:40			07:29			08:18			08:11			08:47		
	21:49			20:57			19:48			18:42			16:51			16:40		
22	05:55			06:41			07:30			08:19			08:12			08:47		
	21:48			20:55			19:46			18:40			16:50			16:40		
23	05:56			06:43			07:32			08:21			08:14			08:48		
	21:47			20:53			19:44			18:38			16:49			16:41		
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16			08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48			16:41	1	09:20 (KLZ_WT08)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17			08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47			16:42	1	09:21 (KLZ_WT08)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19			08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46			16:43	1	09:21 (KLZ_WT08)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20			08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45			16:43	2	09:22 (KLZ_WT08)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	6	07:23 (SAM_WT06)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	8	09:08 (KLZ_WT08)	16:44	2	09:22 (KLZ_WT08)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	6	07:24 (SAM_WT06)	19:30			17:27			16:44	10	09:09 (KLZ_WT08)	16:45	3	09:23 (KLZ_WT08)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	5	07:25 (SAM_WT06)	19:28			17:25			16:43	11	09:10 (KLZ_WT08)	16:46	3	09:23 (KLZ_WT08)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	3	07:24 (SAM_WT06)				17:23						16:47	4	09:24 (KLZ_WT08)
Potential sun hours	498			451			380			333			269			248		
Total, worst case	128			22			31			188			33			133		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,70			0,65			0,63			0,55			0,53			0,53		
Total reduction	0,31			0,29			0,26			0,20			0,14			0,12		
Total, real	39			6			8			37			5			15		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (KLZ_WT08)	08:24		08:50 (MXS_WT01)	07:32			07:23			06:20		06:47 (SAM_WT06)	05:36
	16:48	11	09:31 (KLZ_WT08)	17:35	53	16:35 (KLZ_WT15)	18:25			20:17			21:06	6	06:53 (SAM_WT06)	21:51
2	08:50		09:21 (KLZ_WT08)	08:23		08:48 (MXS_WT01)	07:30			07:21			06:18			05:36
	16:49	11	09:32 (KLZ_WT08)	17:36	53	16:35 (KLZ_WT15)	18:27			20:19			21:08			21:52
3	08:49		09:21 (KLZ_WT08)	08:21		15:46 (KLZ_WT15)	07:28			07:19			06:17			05:35
	16:50	12	09:33 (KLZ_WT08)	17:38	49	16:35 (KLZ_WT15)	18:28			20:20			21:10			21:53
4	08:49		09:20 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26			07:17			06:15			05:34
	16:51	13	09:33 (KLZ_WT08)	17:40	50	16:36 (KLZ_WT15)	18:30			20:22			21:11			21:54
5	08:49		09:20 (KLZ_WT08)	08:18		08:43 (MVN_WT01)	07:24		07:46 (KLZ_WT19)	07:14		07:37 (SAM_WT11)	06:13			05:34
	16:53	14	09:34 (KLZ_WT08)	17:42	51	16:35 (KLZ_WT15)	18:32	4	07:50 (KLZ_WT19)	20:24	1	07:38 (SAM_WT11)	21:13			21:55
6	08:49		09:20 (KLZ_WT08)	08:16		08:41 (MVN_WT01)	07:21		07:44 (KLZ_WT19)	07:12		07:34 (SAM_WT11)	06:11			05:33
	16:54	15	09:35 (KLZ_WT08)	17:44	52	16:35 (KLZ_WT15)	18:33	9	07:53 (KLZ_WT19)	20:25	2	07:36 (SAM_WT11)	21:14			21:56
7	08:48		09:20 (KLZ_WT08)	08:15		08:39 (MVN_WT01)	07:19		07:42 (KLZ_WT19)	07:10		07:32 (SAM_WT11)	06:09			05:32
	16:55	16	09:36 (KLZ_WT08)	17:45	53	16:35 (KLZ_WT15)	18:35	13	07:55 (KLZ_WT19)	20:27	3	07:35 (SAM_WT11)	21:16			21:56
8	08:48		09:20 (KLZ_WT08)	08:13		08:41 (MVN_WT01)	07:17		07:40 (KLZ_WT19)	07:08			06:08			05:32
	16:56	16	09:36 (KLZ_WT08)	17:47	48	16:35 (KLZ_WT15)	18:37	16	07:56 (KLZ_WT19)	20:29			21:17			21:57
9	08:48		09:17 (RHR_WT01)	08:11		15:49 (KLZ_WT15)	07:15		07:38 (KLZ_WT19)	07:06		07:28 (SAM_WT07)	06:06			05:31
	16:58	17	09:37 (KLZ_WT08)	17:49	46	16:35 (KLZ_WT15)	18:39	19	07:57 (KLZ_WT19)	20:30	2	07:30 (SAM_WT07)	21:19			21:58
10	08:47		09:16 (RHR_WT01)	08:09		15:49 (KLZ_WT15)	07:13		07:35 (KLZ_WT19)	07:03		07:26 (SAM_WT07)	06:04			05:31
	16:59	29	16:08 (KLZ_WT15)	17:51	45	16:34 (KLZ_WT15)	18:40	21	07:56 (KLZ_WT19)	20:32	5	07:31 (SAM_WT07)	21:21			21:59
11	08:46		09:15 (RHR_WT01)	08:08		15:50 (KLZ_WT15)	07:11		07:34 (KLZ_WT19)	07:01		07:24 (SAM_WT07)	06:03			05:31
	17:00	35	16:11 (KLZ_WT15)	17:53	44	16:34 (KLZ_WT15)	18:42	22	07:56 (KLZ_WT19)	20:34	7	07:31 (SAM_WT07)	21:22			22:00
12	08:46		09:15 (RHR_WT01)	08:06		15:50 (KLZ_WT15)	07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01			05:30
	17:02	40	16:14 (KLZ_WT15)	17:55	43	16:33 (KLZ_WT15)	18:44	25	07:56 (KLZ_WT19)	20:35	9	07:30 (SAM_WT07)	21:24			22:00
13	08:45		09:14 (RHR_WT01)	08:04		15:51 (KLZ_WT15)	07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00			05:30
	17:03	43	16:15 (KLZ_WT15)	17:56	41	16:32 (KLZ_WT15)	18:45	27	07:56 (KLZ_WT19)	20:37	10	07:29 (SAM_WT07)	21:25			22:01
14	08:45		09:13 (RHR_WT01)	08:02		15:52 (KLZ_WT15)	07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58			05:30
	17:05	48	16:17 (KLZ_WT15)	17:58	39	16:31 (KLZ_WT15)	18:47	28	07:54 (KLZ_WT19)	20:38	11	07:28 (SAM_WT07)	21:27			22:02
15	08:44		09:12 (RHR_WT01)	08:00		15:53 (KLZ_WT15)	07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30
	17:06	51	16:19 (KLZ_WT15)	18:00	37	16:30 (KLZ_WT15)	18:49	30	07:54 (KLZ_WT19)	20:40	8	07:26 (SAM_WT07)	21:28			22:02
16	08:43		09:11 (RHR_WT01)	07:58		15:55 (KLZ_WT15)	06:59		07:22 (CBR_WT01)	06:50			05:55			05:30
	17:08	53	16:20 (KLZ_WT15)	18:02	34	16:29 (KLZ_WT15)	18:50	30	07:52 (KLZ_WT19)	20:42			21:30			22:03
17	08:42		09:11 (RHR_WT01)	07:57		15:57 (KLZ_WT15)	06:57		07:22 (CBR_WT01)	06:48			05:54			05:30
	17:09	54	16:22 (KLZ_WT15)	18:04	30	16:27 (KLZ_WT15)	18:52	27	07:51 (KLZ_WT19)	20:43			21:31			22:03
18	08:41		09:13 (RHR_WT01)	07:55		15:59 (KLZ_WT15)	06:55		07:17 (SAM_WT05)	06:46			05:52			05:30
	17:11	51	16:23 (KLZ_WT15)	18:05	27	16:26 (KLZ_WT15)	18:54	21	07:47 (KLZ_WT19)	20:45			21:33			22:03
19	08:40		09:25 (KLZ_WT08)	07:53		16:02 (KLZ_WT15)	06:53		07:15 (SAM_WT05)	06:44			05:51			05:30
	17:12	51	16:25 (KLZ_WT15)	18:07	21	16:23 (KLZ_WT15)	18:56	13	07:32 (CBR_WT01)	20:47			21:34			22:04
20	08:39		09:26 (KLZ_WT08)	07:51		16:05 (KLZ_WT15)	06:50		07:13 (SAM_WT05)	06:42			05:49			05:30
	17:14	51	16:26 (KLZ_WT15)	18:09	15	16:20 (KLZ_WT15)	18:57	5	07:18 (SAM_WT05)	20:48			21:35			22:04
21	08:38		09:27 (KLZ_WT08)	07:49			06:48			06:40			05:48			05:30
	17:16	49	16:26 (KLZ_WT15)	18:11			18:59			20:50			21:37			22:04
22	08:37		09:29 (KLZ_WT08)	07:47		08:10 (KLZ_WT10)	06:46			06:38			05:47			05:30
	17:17	48	16:28 (KLZ_WT15)	18:12	1	08:11 (KLZ_WT10)	19:01			20:52			21:38			22:05
23	08:36		09:32 (KLZ_WT08)	07:45		08:08 (KLZ_WT10)	06:44			06:36			05:46			05:30
	17:19	44	16:29 (KLZ_WT15)	18:14	4	08:12 (KLZ_WT10)	19:02			20:53			21:40			22:05
24	08:35		15:48 (KLZ_WT15)	07:43		08:06 (KLZ_WT10)	06:41			06:34			05:44			05:31
	17:21	42	16:30 (KLZ_WT15)	18:16	6	08:12 (KLZ_WT10)	19:04			20:55			21:41			22:05
25	08:34		15:47 (KLZ_WT15)	07:41		08:04 (KLZ_WT10)	06:39			06:32		06:55 (SAM_WT06)	05:43			05:31
	17:22	43	16:30 (KLZ_WT15)	18:18	8	08:12 (KLZ_WT10)	19:05			20:57	2	06:57 (SAM_WT06)	21:42			22:05
26	08:32		15:47 (KLZ_WT15)	07:39		08:02 (KLZ_WT10)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31
	17:24	45	16:32 (KLZ_WT15)	18:20	10	08:12 (KLZ_WT10)	19:07			20:58	4	06:57 (SAM_WT06)	21:43			22:05
27	08:31		15:46 (KLZ_WT15)	07:36		08:03 (KLZ_WT10)	06:35			06:28		06:51 (SAM_WT06)	05:41			05:32
	17:26	46	16:32 (KLZ_WT15)	18:21	8	08:11 (KLZ_WT10)	19:09			21:00	5	06:56 (SAM_WT06)	21:45			22:05
28	08:30		15:46 (KLZ_WT15)	07:34		08:04 (KLZ_WT10)	06:32			06:26		06:50 (SAM_WT06)	05:40			05:32
	17:28	47	16:33 (KLZ_WT15)	18:23	4	08:08 (KLZ_WT10)	19:10			21:01	7	06:57 (SAM_WT06)	21:46			22:05
29	08:28		15:46 (KLZ_WT15)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33
	17:29	47	16:33 (KLZ_WT15)				20:12			21:03	8	06:56 (SAM_WT06)	21:47			22:05
30	08:27		08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33
	17:31	50	16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	9	06:55 (SAM_WT06)	21:48			22:04
31	08:26		08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37			
	17:33	51	16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		1143			872			312			93			6		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,65			0,70			0,57			0,65			0,67		
Total reduction		0,16			0,21			0,21			0,29			0,30		
Total, real		180			179			66			27			2		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July		August			September			October			November			December		
1	05:34		06:09			06:57		07:23 (SAM_WT07)	07:44		08:09 (CBR_WT01)	07:37		15:19 (KLZ_WT15)	08:26		08:57 (RHR_WT01)
	22:04		21:34			20:33	7	07:30 (SAM_WT07)	19:25	26	08:35 (KLZ_WT19)	17:21	45	16:04 (KLZ_WT15)	16:42	35	15:53 (KLZ_WT15)
2	05:35		06:11			06:59		07:24 (SAM_WT07)	07:46		08:11 (CBR_WT01)	07:38		15:18 (KLZ_WT15)	08:27		08:59 (RHR_WT01)
	22:04		21:32			20:31	5	07:29 (SAM_WT07)	19:23	24	08:35 (KLZ_WT19)	17:19	47	16:05 (KLZ_WT15)	16:42	30	15:52 (KLZ_WT15)
3	05:35		06:12			07:00		07:26 (SAM_WT07)	07:48		08:12 (KLZ_WT19)	07:40		08:10 (MVN_WT01)	08:29		09:00 (RHR_WT01)
	22:04		21:30			20:29	2	07:28 (SAM_WT07)	19:21	22	08:34 (KLZ_WT19)	17:17	49	16:05 (KLZ_WT15)	16:41	17	09:20 (KLZ_WT08)
4	05:36		06:14			07:02			07:49		08:14 (KLZ_WT19)	07:42		08:09 (MVN_WT01)	08:30		09:05 (KLZ_WT08)
	22:03		21:29			20:27			19:19	20	08:34 (KLZ_WT19)	17:16	53	16:05 (KLZ_WT15)	16:40	16	09:21 (KLZ_WT08)
5	05:37		06:15			07:03		07:29 (SAM_WT11)	07:51		08:16 (KLZ_WT19)	07:44		08:11 (MVN_WT01)	08:31		09:06 (KLZ_WT08)
	22:03		21:27			20:24	3	07:32 (SAM_WT11)	19:16	17	08:33 (KLZ_WT19)	17:14	52	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
6	05:38		06:17			07:05		07:30 (SAM_WT11)	07:53		08:17 (KLZ_WT19)	07:45		08:13 (MVN_WT01)	08:33		09:06 (KLZ_WT08)
	22:02		21:25			20:22	2	07:32 (SAM_WT11)	19:14	14	08:31 (KLZ_WT19)	17:12	50	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
7	05:38		06:18			07:07		07:32 (SAM_WT11)	07:54		08:19 (KLZ_WT19)	07:47		08:15 (MVN_WT01)	08:34		09:07 (KLZ_WT08)
	22:02		21:24			20:20	1	07:33 (SAM_WT11)	19:12	11	08:30 (KLZ_WT19)	17:11	49	16:05 (KLZ_WT15)	16:39	14	09:21 (KLZ_WT08)
8	05:39		06:20			07:08			07:56		08:21 (KLZ_WT19)	07:49		15:17 (KLZ_WT15)	08:35		09:08 (KLZ_WT08)
	22:01		21:22			20:18			19:10	7	08:28 (KLZ_WT19)	17:09	49	16:06 (KLZ_WT15)	16:39	13	09:21 (KLZ_WT08)
9	05:40		06:21			07:10			07:58			07:50		08:19 (MXS_WT01)	08:36		09:09 (KLZ_WT08)
	22:00		21:20			20:15			19:08			17:07	53	16:06 (KLZ_WT15)	16:39	12	09:21 (KLZ_WT08)
10	05:41		06:23			07:11			07:59			07:52		08:21 (MXS_WT01)	08:37		09:10 (KLZ_WT08)
	22:00		21:18			20:13			19:05			17:06	53	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
11	05:42		06:24			07:13			08:01			07:54		08:23 (MXS_WT01)	08:38		09:10 (KLZ_WT08)
	21:59		21:16			20:11			19:03			17:04	51	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
12	05:43		06:26		06:55 (SAM_WT06)	07:14			08:02			07:56		08:24 (MXS_WT01)	08:39		09:11 (KLZ_WT08)
	21:58		21:14	7	07:02 (SAM_WT06)	20:09			19:01			17:03	50	16:05 (KLZ_WT15)	16:38	10	09:21 (KLZ_WT08)
13	05:44		06:27		06:54 (SAM_WT06)	07:16		07:41 (SAM_WT04)	08:04			07:57		15:18 (KLZ_WT15)	08:40		09:12 (KLZ_WT08)
	21:57		21:13	9	07:03 (SAM_WT06)	20:06	1	07:42 (SAM_WT04)	18:59			17:01	47	16:05 (KLZ_WT15)	16:38	9	09:21 (KLZ_WT08)
14	05:45		06:29		06:56 (SAM_WT06)	07:18			08:06		08:36 (KLZ_WT10)	07:59		15:18 (KLZ_WT15)	08:41		09:13 (KLZ_WT08)
	21:56		21:11	8	07:04 (SAM_WT06)	20:04			18:57	6	08:42 (KLZ_WT10)	17:00	47	16:05 (KLZ_WT15)	16:38	8	09:21 (KLZ_WT08)
15	05:47		06:30		06:57 (SAM_WT06)	07:19			08:07		08:34 (KLZ_WT10)	08:01		15:19 (KLZ_WT15)	08:42		09:15 (KLZ_WT08)
	21:56		21:09	7	07:04 (SAM_WT06)	20:02			18:55	10	08:44 (KLZ_WT10)	16:59	46	16:05 (KLZ_WT15)	16:38	6	09:21 (KLZ_WT08)
16	05:48		06:32		06:59 (SAM_WT06)	07:21			08:09		08:35 (KLZ_WT10)	08:02		15:20 (KLZ_WT15)	08:43		09:16 (KLZ_WT08)
	21:55		21:07	5	07:04 (SAM_WT06)	20:00			18:53	9	08:44 (KLZ_WT10)	16:57	45	16:05 (KLZ_WT15)	16:38	5	09:21 (KLZ_WT08)
17	05:49		06:34		07:00 (SAM_WT06)	07:22			08:11		08:36 (KLZ_WT10)	08:04		15:21 (KLZ_WT15)	08:44		09:17 (RHR_WT02)
	21:54		21:05	3	07:03 (SAM_WT06)	19:57			18:50	8	08:44 (KLZ_WT10)	16:56	43	16:04 (KLZ_WT15)	16:39	4	09:21 (KLZ_WT08)
18	05:50		06:35		07:02 (SAM_WT06)	07:24			08:12		08:38 (KLZ_WT10)	08:06		15:22 (KLZ_WT15)	08:45		09:16 (RHR_WT02)
	21:52		21:03	1	07:03 (SAM_WT06)	19:55			18:48	6	08:44 (KLZ_WT10)	16:55	42	16:04 (KLZ_WT15)	16:39	5	09:21 (RHR_WT02)
19	05:51		06:37			07:25			08:14		08:40 (KLZ_WT10)	08:08		09:05 (KLZ_WT08)	08:45		09:17 (RHR_WT02)
	21:51		21:01			19:53			18:46	3	08:43 (KLZ_WT10)	16:53	45	16:03 (KLZ_WT15)	16:39	5	09:22 (RHR_WT02)
20	05:53		06:38			07:27			08:16			08:09		09:04 (KLZ_WT08)	08:46		09:18 (RHR_WT02)
	21:50		20:59			19:50			18:44			16:52	48	16:03 (KLZ_WT15)	16:39	5	09:23 (RHR_WT02)
21	05:54		06:40			07:29			08:18		16:40 (KLZ_WT15)	08:11		09:03 (KLZ_WT08)	08:47		09:18 (RHR_WT02)
	21:49		20:57			19:48			18:42	6	16:46 (KLZ_WT15)	16:51	49	16:02 (KLZ_WT15)	16:40	5	09:23 (RHR_WT02)
22	05:55		06:41			07:30			08:19		16:34 (KLZ_WT15)	08:12		09:02 (KLZ_WT08)	08:47		09:19 (RHR_WT02)
	21:48		20:55			19:46			18:40	17	16:51 (KLZ_WT15)	16:50	51	16:02 (KLZ_WT15)	16:40	5	09:24 (RHR_WT02)
23	05:56		06:43			07:32		07:56 (SAM_WT05)	08:21		16:31 (KLZ_WT15)	08:14		09:01 (KLZ_WT08)	08:48		09:19 (RHR_WT02)
	21:47		20:53			19:44	5	08:01 (SAM_WT05)	18:38	23	16:54 (KLZ_WT15)	16:49	50	16:01 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
24	05:58		06:45			07:33		07:58 (SAM_WT05)	08:23		16:29 (KLZ_WT15)	08:16		08:51 (RHR_WT01)	08:48		09:19 (RHR_WT02)
	21:45		20:50			19:41	10	08:14 (CBR_WT01)	18:36	28	16:57 (KLZ_WT15)	16:48	50	16:00 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
25	05:59		06:46			07:35		07:59 (SAM_WT05)	07:24		15:27 (KLZ_WT15)	08:17		08:49 (RHR_WT01)	08:48		09:20 (RHR_WT02)
	21:44		20:48			19:39	17	08:27 (KLZ_WT19)	17:34	31	15:58 (KLZ_WT15)	16:47	54	16:00 (KLZ_WT15)	16:42	5	09:25 (RHR_WT02)
26	06:01		06:48			07:36		08:01 (SAM_WT05)	07:26		15:25 (KLZ_WT15)	08:19		08:49 (RHR_WT01)	08:49		09:20 (RHR_WT02)
	21:43		20:46			19:37	25	08:31 (KLZ_WT19)	17:32	35	16:00 (KLZ_WT15)	16:46	53	15:58 (KLZ_WT15)	16:43	5	09:25 (RHR_WT02)
27	06:02		06:49		07:23 (SAM_WT07)	07:38		08:03 (CBR_WT01)	07:28		15:23 (KLZ_WT15)	08:20		08:51 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:41		20:44	2	07:25 (SAM_WT07)	19:35	30	08:33 (KLZ_WT19)	17:30	37	16:00 (KLZ_WT15)	16:45	50	15:58 (KLZ_WT15)	16:43	5	09:26 (KLZ_WT08)
28	06:03		06:51		07:20 (SAM_WT07)	07:40		08:04 (CBR_WT01)	07:30		15:22 (KLZ_WT15)	08:22		08:53 (RHR_WT01)	08:49		09:21 (KLZ_WT08)
	21:40		20:42	8	07:28 (SAM_WT07)	19:32	30	08:34 (KLZ_WT19)	17:28	39	16:01 (KLZ_WT15)	16:44	48	15:57 (KLZ_WT15)	16:44	5	09:26 (KLZ_WT08)
29	06:05		06:52		07:18 (SAM_WT07)	07:41		08:06 (CBR_WT01)	07:31		15:21 (KLZ_WT15)	08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38		20:40	11	07:29 (SAM_WT07)	19:30	29	08:35 (KLZ_WT19)	17:27	41	16:02 (KLZ_WT15)	16:44	44	15:56 (KLZ_WT15)	16:45	7	09:27 (KLZ_WT08)
30	06:06		06:54		07:20 (SAM_WT07)	07:43		08:08 (CBR_WT01)	07:33		15:20 (KLZ_WT15)	08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37		20:38	10	07:30 (SAM_WT07)	19:28	28	08:36 (KLZ_WT19)	17:25	43	16:03 (KLZ_WT15)	16:43	40	15:55 (KLZ_WT15)	16:46	8	09:28 (KLZ_WT08)
31	06:08		06:56		07:21 (SAM_WT07)				07:35		15:19 (KLZ_WT15)				08:50		09:20 (KLZ_WT08)
	21:35		20:35	8	07:29 (SAM_WT07)				17:23	45	16:04 (KLZ_WT15)				16:47	9	09:29 (KLZ_WT08)
Potential sun hours	498		451			380			333			269			248		
Total, worst case				79			195			528			1453			310	
Sun reduction				0,47			0,43			0,36			0,27			0,23	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,65			0,59			0,66			0,68			0,54	
Total reduction				0,30			0,25			0,23			0,18			0,12	
Total, real				23			48			124			259			37	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May	June
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20	05:36
	16:48	6	09:26 (MXS_WT01)	17:35	38	16:59 (KLZ_WT15)	18:25	30	08:39 (KLZ_WT19)	20:17	5	07:51 (SAM_WT11)	21:06	21:51
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18	05:36
	16:49	7	09:27 (MXS_WT01)	17:36	35	16:58 (KLZ_WT15)	18:27	29	08:37 (KLZ_WT19)	20:19	6	07:49 (SAM_WT11)	21:08	21:52
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16	05:35
	16:50	7	09:27 (MXS_WT01)	17:38	32	16:58 (KLZ_WT15)	18:28	20	08:31 (KLZ_WT19)	20:20	6	07:47 (SAM_WT07)	21:10	21:53
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15	05:34
	16:51	7	09:26 (MXS_WT01)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	21:54
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13	05:34
	16:53	6	09:26 (MXS_WT01)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	21:55
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11	05:33
	16:54	5	09:25 (MXS_WT01)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	21:56
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09	05:32
	16:55	1	09:24 (MXS_WT01)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	15	07:47 (SAM_WT07)	21:16	21:56
8	08:48			08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08	05:32
	16:56			17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	14	07:46 (SAM_WT07)	21:17	21:57
9	08:48			08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06	05:31
	16:58			17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	12	07:45 (SAM_WT07)	21:19	21:58
10	08:47			08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04	05:31
	16:59			17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	9	07:43 (SAM_WT07)	21:21	21:59
11	08:46			08:08			07:11		07:33 (SAM_WT05)	07:01		07:38 (SAM_WT07)	06:03	05:31
	17:00			17:53			18:42	8	07:41 (SAM_WT05)	20:34	1	07:39 (SAM_WT07)	21:22	22:00
12	08:46			08:06			07:08		07:31 (SAM_WT05)	06:59			06:01	05:30
	17:02			17:55			18:44	8	07:39 (SAM_WT05)	20:35			21:24	22:00
13	08:45			08:04		08:28 (KLZ_WT19)	07:06			06:57			05:59	05:30
	17:03			17:56	8	08:36 (KLZ_WT19)	18:45			20:37			21:25	22:01
14	08:44			08:02		08:26 (KLZ_WT19)	07:04			06:55			05:58	05:30
	17:05			17:58	13	08:39 (KLZ_WT19)	18:47			20:38			21:27	22:02
15	08:44			08:00		08:24 (KLZ_WT19)	07:02			06:52			05:56	05:30
	17:06			18:00	17	08:41 (KLZ_WT19)	18:49			20:40			21:28	22:02
16	08:43			07:58		08:22 (KLZ_WT19)	06:59			06:50			05:55	05:30
	17:08			18:02	20	08:42 (KLZ_WT19)	18:50			20:42			21:30	22:03
17	08:42			07:57		08:21 (KLZ_WT19)	06:57			06:48			05:54	05:30
	17:09			18:04	22	08:43 (KLZ_WT19)	18:52			20:43			21:31	22:03
18	08:41			07:55		08:20 (KLZ_WT19)	06:55			06:46			05:52	05:29
	17:11			18:05	24	08:44 (KLZ_WT19)	18:54			20:45			21:33	22:03
19	08:40			07:53		08:19 (KLZ_WT19)	06:53			06:44			05:51	05:30
	17:12			18:07	26	08:45 (KLZ_WT19)	18:55			20:47			21:34	22:04
20	08:39		16:39 (KLZ_WT15)	07:51		08:18 (KLZ_WT19)	06:50			06:42			05:49	05:30
	17:14	4	16:43 (KLZ_WT15)	18:09	27	08:45 (KLZ_WT19)	18:57			20:48			21:35	22:04
21	08:38		09:05 (MVN_WT01)	07:49		08:18 (KLZ_WT19)	06:48			06:40		07:03 (SAM_WT06)	05:48	05:30
	17:16	9	16:44 (KLZ_WT15)	18:11	27	08:45 (KLZ_WT19)	18:59			20:50	2	07:05 (SAM_WT06)	21:37	22:04
22	08:37		09:04 (MVN_WT01)	07:47		08:18 (KLZ_WT19)	06:46			06:38		07:01 (SAM_WT06)	05:47	05:30
	17:17	14	16:46 (KLZ_WT15)	18:12	27	08:45 (KLZ_WT19)	19:00			20:52	5	07:06 (SAM_WT06)	21:38	22:05
23	08:36		09:03 (KLZ_WT10)	07:45		08:18 (KLZ_WT19)	06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46	05:30
	17:19	17	16:48 (KLZ_WT15)	18:14	27	08:45 (KLZ_WT19)	19:02	2	07:08 (SAM_WT04)	20:53	7	07:06 (SAM_WT06)	21:40	22:05
24	08:35		09:02 (KLZ_WT10)	07:43		08:18 (KLZ_WT19)	06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44	05:30
	17:21	22	16:50 (KLZ_WT15)	18:16	27	08:45 (KLZ_WT19)	19:04	3	07:07 (SAM_WT04)	20:55	9	07:06 (SAM_WT06)	21:41	22:05
25	08:34		09:00 (KLZ_WT10)	07:41		08:19 (KLZ_WT19)	06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43	05:31
	17:22	25	16:51 (KLZ_WT15)	18:18	25	08:44 (KLZ_WT19)	19:05	4	07:05 (SAM_WT04)	20:57	11	07:06 (SAM_WT06)	21:42	22:05
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42	05:31
	17:24	30	16:54 (KLZ_WT15)	18:20	27	08:44 (KLZ_WT19)	19:07			20:58	12	07:05 (SAM_WT06)	21:43	22:05
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41	05:32
	17:26	34	16:55 (KLZ_WT15)	18:21	30	08:43 (KLZ_WT19)	19:09			21:00	12	07:04 (SAM_WT06)	21:45	22:05
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40	05:32
	17:28	38	16:57 (KLZ_WT15)	18:23	31	08:41 (KLZ_WT19)	19:10			21:01	10	07:03 (SAM_WT06)	21:46	22:05
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39	05:33
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	7	07:02 (SAM_WT06)	21:47	22:05
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22			05:38	05:33
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05			21:48	22:04
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37	
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49	
Potential sun hours	262			279			367			415			482	495
Total, worst case		350			614			198			176			
Sun reduction		0,25			0,30			0,38			0,46			
Oper. time red.		0,97			0,97			0,97			0,97			
Wind dir. red.		0,64			0,61			0,56			0,64			
Total reduction		0,16			0,18			0,21			0,29			
Total, real		54			109			41			51			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July		August			September			October			November			December		
1	05:34		06:09			06:57		07:37 (SAM_WT07)	07:44		08:11 (SAM_WT05)	07:37		16:11 (KLZ_WT15)	08:26		
	22:04		21:34			20:33	1	07:38 (SAM_WT07)	19:25	6	08:17 (SAM_WT05)	17:21	11	16:22 (KLZ_WT15)	16:42		
2	05:34		06:11			06:59		07:32 (SAM_WT07)	07:46		08:11 (SAM_WT05)	07:38		16:09 (KLZ_WT15)	08:27		
	22:04		21:32			20:31	9	07:41 (SAM_WT07)	19:23	8	08:19 (SAM_WT05)	17:19	15	16:24 (KLZ_WT15)	16:41		
3	05:35		06:12			07:00		07:31 (SAM_WT07)	07:48		08:12 (SAM_WT05)	07:40		16:08 (KLZ_WT15)	08:29		
	22:04		21:30			20:29	12	07:43 (SAM_WT07)	19:21	7	08:19 (SAM_WT05)	17:17	18	16:26 (KLZ_WT15)	16:41		
4	05:36		06:14			07:02		07:29 (SAM_WT07)	07:49		08:14 (SAM_WT05)	07:42		16:05 (KLZ_WT15)	08:30		
	22:03		21:29			20:27	14	07:43 (SAM_WT07)	19:19	6	08:20 (SAM_WT05)	17:16	21	16:26 (KLZ_WT15)	16:40		
5	05:37		06:15			07:03		07:29 (SAM_WT07)	07:51		08:16 (SAM_WT05)	07:44		16:05 (KLZ_WT15)	08:31		
	22:03		21:27			20:24	15	07:44 (SAM_WT07)	19:16	11	08:39 (CBR_WT01)	17:14	22	16:27 (KLZ_WT15)	16:40		
6	05:38		06:17			07:05		07:30 (SAM_WT07)	07:53		08:17 (SAM_WT05)	07:45		16:04 (KLZ_WT15)	08:33		09:06 (MXS_WT01)
	22:02		21:25			20:22	13	07:43 (SAM_WT07)	19:14	13	08:41 (CBR_WT01)	17:12	24	16:28 (KLZ_WT15)	16:39	5	09:11 (MXS_WT01)
7	05:38		06:18			07:07		07:32 (SAM_WT07)	07:54		08:28 (CBR_WT01)	07:47		16:04 (KLZ_WT15)	08:34		09:07 (MXS_WT01)
	22:02		21:24			20:20	11	07:43 (SAM_WT07)	19:12	14	08:42 (CBR_WT01)	17:11	24	16:28 (KLZ_WT15)	16:39	6	09:13 (MXS_WT01)
8	05:39		06:20			07:08		07:33 (SAM_WT07)	07:56		08:27 (CBR_WT01)	07:49		08:29 (KLZ_WT10)	08:35		09:07 (MXS_WT01)
	22:01		21:22			20:18	9	07:42 (SAM_WT07)	19:10	16	08:43 (CBR_WT01)	17:09	33	16:29 (KLZ_WT15)	16:39	7	09:14 (MXS_WT01)
9	05:40		06:21			07:10		07:35 (SAM_WT07)	07:57		08:25 (CBR_WT01)	07:50		08:28 (KLZ_WT10)	08:36		09:08 (MXS_WT01)
	22:00		21:20			20:15	7	07:42 (SAM_WT07)	19:08	18	08:43 (CBR_WT01)	17:07	36	16:29 (KLZ_WT15)	16:39	7	09:15 (MXS_WT01)
10	05:41		06:23			07:11		07:36 (SAM_WT07)	07:59		08:25 (CBR_WT01)	07:52		08:28 (KLZ_WT10)	08:37		09:09 (MXS_WT01)
	22:00		21:18			20:13	6	07:42 (SAM_WT11)	19:05	18	08:43 (CBR_WT01)	17:06	38	16:30 (KLZ_WT15)	16:38	7	09:16 (MXS_WT01)
11	05:42		06:24			07:13		07:38 (SAM_WT11)	08:01		08:26 (CBR_WT01)	07:54		08:27 (KLZ_WT10)	08:38		09:10 (MXS_WT01)
	21:59		21:16			20:11	6	07:44 (SAM_WT11)	19:03	26	09:09 (KLZ_WT19)	17:04	40	16:30 (KLZ_WT15)	16:38	6	09:16 (MXS_WT01)
12	05:43		06:26			07:14		07:39 (SAM_WT11)	08:02		08:28 (CBR_WT01)	07:56		08:26 (KLZ_WT10)	08:39		09:11 (MXS_WT01)
	21:58		21:14			20:09	5	07:44 (SAM_WT11)	19:01	29	09:12 (KLZ_WT19)	17:03	40	16:29 (KLZ_WT15)	16:38	6	09:17 (MXS_WT01)
13	05:44		06:27			07:16		07:41 (SAM_WT11)	08:04		08:29 (CBR_WT01)	07:57		08:27 (KLZ_WT10)	08:40		09:12 (MXS_WT01)
	21:57		21:13			20:06	3	07:44 (SAM_WT11)	18:59	31	09:13 (KLZ_WT19)	17:01	39	16:29 (KLZ_WT15)	16:38	6	09:18 (MXS_WT01)
14	05:45		06:29		07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06		08:31 (CBR_WT01)	07:59		08:28 (KLZ_WT10)	08:41		09:13 (MXS_WT01)
	21:56		21:11	8	07:10 (SAM_WT06)	20:04	1	07:43 (SAM_WT11)	18:57	30	09:14 (KLZ_WT19)	17:00	38	16:29 (KLZ_WT15)	16:38	5	09:18 (MXS_WT01)
15	05:46		06:30		07:00 (SAM_WT06)	07:19			08:07		08:33 (CBR_WT01)	08:01		08:30 (KLZ_WT10)	08:42		09:14 (MXS_WT01)
	21:56		21:09	11	07:11 (SAM_WT06)	20:02			18:55	28	09:15 (KLZ_WT19)	16:59	34	16:28 (KLZ_WT15)	16:38	5	09:19 (MXS_WT01)
16	05:48		06:32		07:00 (SAM_WT06)	07:21			08:09		08:51 (KLZ_WT19)	08:02		08:32 (KLZ_WT10)	08:43		09:15 (MXS_WT01)
	21:55		21:07	12	07:12 (SAM_WT06)	20:00			18:53	25	09:16 (KLZ_WT19)	16:57	30	16:27 (KLZ_WT15)	16:38	5	09:20 (MXS_WT01)
17	05:49		06:34		07:00 (SAM_WT06)	07:22			08:11		08:50 (KLZ_WT19)	08:04		08:34 (KLZ_WT10)	08:44		09:16 (MXS_WT01)
	21:54		21:05	12	07:12 (SAM_WT06)	19:57			18:50	26	09:16 (KLZ_WT19)	16:56	25	16:25 (KLZ_WT15)	16:38	4	09:20 (MXS_WT01)
18	05:50		06:35		07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12		08:49 (KLZ_WT19)	08:06		08:36 (KLZ_WT10)	08:45		09:16 (MXS_WT01)
	21:52		21:03	11	07:13 (SAM_WT06)	19:55	4	07:53 (SAM_WT04)	18:48	27	09:16 (KLZ_WT19)	16:55	22	16:24 (KLZ_WT15)	16:39	4	09:20 (MXS_WT01)
19	05:51		06:37		07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14		08:49 (KLZ_WT19)	08:07		08:37 (KLZ_WT10)	08:45		09:17 (MXS_WT01)
	21:51		21:01	9	07:12 (SAM_WT06)	19:53	4	07:54 (SAM_WT04)	18:46	28	09:17 (KLZ_WT19)	16:53	17	16:22 (KLZ_WT15)	16:39	4	09:21 (MXS_WT01)
20	05:53		06:38		07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16		08:49 (KLZ_WT19)	08:09		08:39 (MVN_WT01)	08:46		09:18 (MXS_WT01)
	21:50		20:59	7	07:12 (SAM_WT06)	19:50	3	07:55 (SAM_WT04)	18:44	28	09:17 (KLZ_WT19)	16:52	14	16:21 (KLZ_WT15)	16:39	4	09:22 (MXS_WT01)
21	05:54		06:40		07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18		08:49 (KLZ_WT19)	08:11		08:41 (MVN_WT01)	08:47		09:18 (MXS_WT01)
	21:49		20:57	5	07:11 (SAM_WT06)	19:48	1	07:54 (SAM_WT04)	18:42	27	09:16 (KLZ_WT19)	16:51	9	16:20 (KLZ_WT15)	16:40	4	09:22 (MXS_WT01)
22	05:55		06:41		07:08 (SAM_WT06)	07:30			08:19		08:49 (KLZ_WT19)	08:12		16:15 (KLZ_WT15)	08:47		09:19 (MXS_WT01)
	21:48		20:55	2	07:10 (SAM_WT06)	19:46			18:40	26	09:15 (KLZ_WT19)	16:50	4	16:19 (KLZ_WT15)	16:40	4	09:23 (MXS_WT01)
23	05:56		06:43			07:32			08:21		08:50 (KLZ_WT19)	08:14			08:48		09:19 (MXS_WT01)
	21:47		20:53			19:44			18:38	25	09:15 (KLZ_WT19)	16:49			16:41	4	09:23 (MXS_WT01)
24	05:58		06:45			07:33			08:23		08:50 (KLZ_WT19)	08:16			08:48		09:19 (MXS_WT01)
	21:45		20:50			19:41			18:36	24	09:14 (KLZ_WT19)	16:48			16:41	4	09:23 (MXS_WT01)
25	05:59		06:46			07:35			07:24		07:51 (KLZ_WT19)	08:17			08:48		09:20 (MXS_WT01)
	21:44		20:48			19:39			17:34	23	08:14 (KLZ_WT19)	16:47			16:42	4	09:24 (MXS_WT01)
26	06:00		06:48			07:36			07:26		07:53 (KLZ_WT19)	08:19			08:49		09:20 (MXS_WT01)
	21:43		20:46			19:37			17:32	19	08:12 (KLZ_WT19)	16:46			16:43	4	09:24 (MXS_WT01)
27	06:02		06:49			07:38			07:28		07:54 (KLZ_WT19)	08:20			08:49		09:20 (MXS_WT01)
	21:41		20:44			19:34			17:30	16	08:10 (KLZ_WT19)	16:45			16:43	5	09:25 (MXS_WT01)
28	06:03		06:51			07:40			07:30		07:56 (KLZ_WT19)	08:22			08:49		09:20 (MXS_WT01)
	21:40		20:42			19:32			17:28	12	08:08 (KLZ_WT19)	16:44			16:44	5	09:25 (MXS_WT01)
29	06:05		06:52			07:41			07:31		07:59 (KLZ_WT19)	08:23			08:49		09:20 (MXS_WT01)
	21:38		20:40			19:30			17:27	5	08:04 (KLZ_WT19)	16:44			16:45	5	09:25 (MXS_WT01)
30	06:06		06:54			07:43			07:33			08:25			08:50		09:20 (MXS_WT01)
	21:37		20:38			19:28			17:25			16:43			16:46	5	09:25 (MXS_WT01)
31	06:08		06:56						07:35						08:50		09:20 (MXS_WT01)
	21:35		20:35						17:23						16:47	6	09:26 (MXS_WT01)
Potential sun hours	498		451			380			333			269			248		
Total, worst case				77			124			572			554			131	
Sun reduction				0,47			0,43			0,36			0,27			0,23	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,66			0,63			0,56			0,67			0,53	
Total reduction				0,30			0,27			0,20			0,18			0,12	
Total, real				23			33			113			97			15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		08:50 (SAM_WT04)	07:32		07:55 (KLZ_WT17)	07:23		07:45 (KLZ_WT01)	06:20			05:36		06:17 (TEN_WT01)
	16:48	89	15:57 (KLZ_WT13)	17:35	15	16:50 (EVE_WT02)	18:25	34	17:42 (EVE_WT01)	20:17	6	07:51 (KLZ_WT01)	21:06			21:51	16	06:33 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		07:53 (KLZ_WT17)	07:21		07:46 (KLZ_WT01)	06:18			05:36		06:19 (TEN_WT01)
	16:49	87	15:57 (KLZ_WT13)	17:36	12	16:48 (EVE_WT02)	18:26	36	17:41 (EVE_WT01)	20:19	2	07:48 (KLZ_WT01)	21:08			21:52	14	06:33 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		07:51 (KLZ_WT17)	07:19			06:16			05:35		06:19 (TEN_WT01)
	16:50	86	15:58 (KLZ_WT13)	17:38	7	09:09 (KLZ_WT05)	18:28	35	17:39 (EVE_WT01)	20:20			21:10			21:53	14	06:33 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT11)	07:26		07:49 (KLZ_WT17)	07:17			06:15			05:34		06:19 (TEN_WT01)
	16:51	84	15:57 (KLZ_WT13)	17:40	16	09:14 (KLZ_WT05)	18:30	32	17:36 (EVE_WT01)	20:22			21:11			21:54	13	06:32 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT11)	07:24		07:46 (SAM_WT08)	07:14			06:13			05:33		06:20 (TEN_WT01)
	16:52	83	15:58 (KLZ_WT13)	17:42	21	09:16 (KLZ_WT05)	18:32	26	08:12 (KLZ_WT04)	20:24			21:13			21:55	12	06:32 (TEN_WT01)
6	08:49		09:19 (SAM_WT05)	08:16		08:41 (SAM_WT11)	07:21		07:44 (SAM_WT08)	07:12			06:11			05:33		06:21 (TEN_WT01)
	16:54	80	15:57 (KLZ_WT13)	17:44	25	09:17 (KLZ_WT05)	18:33	28	08:12 (KLZ_WT04)	20:25			21:14			21:56	10	06:31 (TEN_WT01)
7	08:48		09:21 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		07:42 (KLZ_WT17)	07:10			06:09			05:32		06:22 (TEN_WT01)
	16:55	75	15:58 (KLZ_WT13)	17:45	29	09:18 (KLZ_WT05)	18:35	30	08:12 (KLZ_WT04)	20:27			21:16			21:57	9	06:31 (TEN_WT01)
8	08:48		13:18 (KLZ_WT20)	08:13		08:57 (KLZ_WT05)	07:17		07:40 (KLZ_WT17)	07:08			06:08			05:32		06:23 (TEN_WT01)
	16:56	67	15:57 (KLZ_WT13)	17:47	23	09:20 (KLZ_WT05)	18:37	32	08:12 (KLZ_WT04)	20:29			21:17			21:57	6	06:29 (TEN_WT01)
9	08:48		13:21 (KLZ_WT20)	08:11		08:56 (KLZ_WT05)	07:15		07:39 (KLZ_WT17)	07:05			06:06			05:31		06:24 (TEN_WT01)
	16:58	63	15:57 (KLZ_WT13)	17:49	25	09:21 (KLZ_WT05)	18:39	33	08:12 (KLZ_WT17)	20:30			21:19			21:58	5	06:29 (TEN_WT01)
10	08:47		13:23 (KLZ_WT20)	08:09		08:55 (KLZ_WT05)	07:13		07:38 (KLZ_WT17)	07:03			06:04			05:31		
	16:59	58	15:56 (KLZ_WT13)	17:51	26	09:21 (KLZ_WT05)	18:40	32	08:10 (KLZ_WT17)	20:32			21:21			21:59		
11	08:47		13:27 (KLZ_WT20)	08:08		08:55 (KLZ_WT05)	07:10		07:38 (KLZ_WT17)	07:01			06:03		06:28 (EAM_WT02)	05:31		
	17:00	48	15:55 (KLZ_WT13)	17:53	27	09:22 (KLZ_WT05)	18:42	32	08:10 (KLZ_WT17)	20:34			21:22	1	06:29 (EAM_WT02)	22:00		
12	08:46		15:18 (KLZ_WT12)	08:06		08:54 (KLZ_WT05)	07:08		07:39 (KLZ_WT17)	06:59			06:01			05:30		
	17:02	38	15:56 (KLZ_WT12)	17:54	28	09:22 (KLZ_WT05)	18:44	31	08:10 (KLZ_WT17)	20:35			21:24			22:00		
13	08:45		15:18 (KLZ_WT12)	08:04		08:54 (KLZ_WT05)	07:06		07:39 (KLZ_WT17)	06:57			05:59		06:25 (EAM_WT01)	05:30		
	17:03	38	15:56 (KLZ_WT12)	17:56	28	09:22 (KLZ_WT05)	18:45	30	08:09 (KLZ_WT17)	20:37			21:25	2	06:27 (EAM_WT01)	22:01		
14	08:45		15:19 (KLZ_WT12)	08:02		08:26 (SAM_WT06)	07:04		07:39 (KLZ_WT17)	06:55			05:58		06:23 (EAM_WT01)	05:30		
	17:05	37	15:56 (KLZ_WT12)	17:58	30	09:22 (KLZ_WT05)	18:47	28	08:07 (KLZ_WT17)	20:38			21:27	4	06:27 (TEN_WT01)	22:02		
15	08:44		15:20 (KLZ_WT12)	08:00		08:24 (SAM_WT06)	07:02		07:40 (KLZ_WT17)	06:52			05:56		06:22 (EAM_WT01)	05:30		
	17:06	36	15:56 (KLZ_WT12)	18:00	34	09:22 (KLZ_WT05)	18:49	26	08:06 (KLZ_WT17)	20:40			21:28	7	06:29 (TEN_WT01)	22:02		
16	08:43		15:20 (KLZ_WT12)	07:58		08:22 (SAM_WT06)	06:59		07:41 (KLZ_WT17)	06:50			05:55		06:21 (EAM_WT01)	05:29		
	17:08	38	16:35 (EVE_WT02)	18:02	43	17:34 (EVE_WT01)	18:50	23	08:04 (KLZ_WT17)	20:42			21:30	10	06:31 (TEN_WT01)	22:03		
17	08:42		09:10 (SAM_WT07)	07:57		08:20 (SAM_WT06)	06:57		07:42 (KLZ_WT17)	06:48			05:53		06:19 (TEN_WT01)	05:29		
	17:09	42	16:37 (EVE_WT02)	18:03	48	17:36 (EVE_WT01)	18:52	19	08:01 (KLZ_WT17)	20:43			21:31	12	06:31 (TEN_WT01)	22:03		
18	08:41		09:09 (SAM_WT07)	07:55		08:18 (SAM_WT06)	06:55		07:44 (KLZ_WT17)	06:46			05:52		06:18 (TEN_WT01)	05:29		
	17:11	45	16:39 (EVE_WT02)	18:05	54	17:38 (EVE_WT01)	18:54	15	07:59 (KLZ_WT17)	20:45			21:33	14	06:32 (TEN_WT01)	22:04		
19	08:40		09:08 (SAM_WT07)	07:53		08:16 (SAM_WT06)	06:53		07:49 (KLZ_WT17)	06:44			05:51		06:17 (TEN_WT01)	05:29		
	17:12	48	16:41 (EVE_WT02)	18:07	57	17:40 (EVE_WT01)	18:55	5	07:54 (KLZ_WT17)	20:47			21:34	16	06:33 (TEN_WT01)	22:04		
20	08:39		09:07 (SAM_WT07)	07:51		08:15 (SAM_WT06)	06:50			06:42			05:49		06:16 (TEN_WT01)	05:30		
	17:14	51	16:43 (EVE_WT02)	18:09	57	17:42 (EVE_WT01)	18:57			20:48			21:35	18	06:34 (TEN_WT01)	22:04		
21	08:38		09:05 (SAM_WT07)	07:49		08:16 (SAM_WT06)	06:48			06:40			05:48		06:15 (TEN_WT01)	05:30		
	17:16	54	16:44 (EVE_WT02)	18:11	56	17:44 (EVE_WT01)	18:59			20:50			21:37	18	06:33 (TEN_WT01)	22:04		
22	08:37		09:04 (SAM_WT07)	07:47		08:16 (SAM_WT06)	06:46			06:38		07:01 (SAM_WT10)	05:47		06:15 (TEN_WT01)	05:30		
	17:17	56	16:46 (EVE_WT02)	18:12	52	17:46 (EVE_WT01)	19:00			20:52	2	07:03 (SAM_WT10)	21:38	19	06:34 (TEN_WT01)	22:05		
23	08:36		09:03 (SAM_WT07)	07:45		08:18 (SAM_WT06)	06:44			06:36		06:59 (SAM_WT10)	05:46		06:15 (TEN_WT01)	05:30		
	17:19	58	16:48 (EVE_WT02)	18:14	41	17:46 (EVE_WT01)	19:02			20:53	3	07:02 (SAM_WT10)	21:40	19	06:34 (TEN_WT01)	22:05		
24	08:35		09:02 (SAM_WT07)	07:43		08:20 (SAM_WT06)	06:41		07:04 (KLZ_WT02)	06:34		06:57 (SAM_WT10)	05:44		06:15 (TEN_WT01)	05:30		
	17:21	58	16:50 (EVE_WT02)	18:16	32	17:46 (EVE_WT01)	19:04	1	07:05 (KLZ_WT02)	20:55	5	07:02 (SAM_WT10)	21:41	19	06:34 (TEN_WT01)	22:05		
25	08:34		09:01 (SAM_WT07)	07:41		17:20 (EVE_WT01)	06:39		07:01 (KLZ_WT02)	06:32		06:55 (SAM_WT10)	05:43		06:15 (TEN_WT01)	05:31		
	17:22	58	16:51 (EVE_WT02)	18:18	26	17:46 (EVE_WT01)	19:05	4	07:05 (KLZ_WT02)	20:57	6	07:01 (SAM_WT10)	21:42	19	06:34 (TEN_WT01)	22:05		
26	08:32		09:01 (SAM_WT07)	07:38		17:20 (EVE_WT01)	06:37		06:59 (KLZ_WT02)	06:30		06:53 (SAM_WT10)	05:42		06:15 (TEN_WT01)	05:31		
	17:24	55	16:53 (EVE_WT02)	18:19	26	17:46 (EVE_WT01)	19:07	6	07:05 (KLZ_WT02)	20:58	6	06:59 (SAM_WT10)	21:43	19	06:34 (TEN_WT01)	22:05		
27	08:31		09:02 (SAM_WT07)	07:36		08:00 (KLZ_WT17)	06:35		06:57 (KLZ_WT02)	06:28		06:52 (SAM_WT10)	05:41		06:15 (TEN_WT01)	05:32		
	17:26	47	16:52 (EVE_WT02)	18:21	27	17:45 (EVE_WT01)	19:09	8	07:05 (KLZ_WT02)	21:00	5	06:57 (SAM_WT10)	21:45	19	06:34 (TEN_WT01)	22:05		
28	08:30		09:03 (SAM_WT07)	07:34		07:57 (KLZ_WT17)	06:32		06:54 (KLZ_WT02)	06:26			05:40		06:15 (TEN_WT01)	05:32		
	17:28	38	16:53 (EVE_WT02)	18:23	30	17:43 (EVE_WT01)	19:10	10	07:04 (KLZ_WT02)	21:01			21:46	19	06:34 (TEN_WT01)	22:05		
29	08:28		09:03 (SAM_WT07)				07:30		07:52 (KLZ_WT01)	06:24			05:39		06:17 (TEN_WT01)	05:33		
	17:29	31	16:52 (EVE_WT02)				20:12	9	08:03 (KLZ_WT02)	21:03			21:47	17	06:34 (TEN_WT01)	22:05		
30	08:27		09:06 (SAM_WT07)				07:28		07:50 (KLZ_WT01)	06:22			05:38		06:17 (TEN_WT01)	05:33		
	17:31	25	16:52 (EVE_WT02)				20:14	5	08:00 (KLZ_WT02)	21:05			21:48	17	06:34 (TEN_WT01)	22:05		
31	08:26		08:51 (SAM_WT04)				07:25		07:48 (KLZ_WT01)				05:37		06:17 (TEN_WT01)			
	17:33	18	16:51 (EVE_WT02)				20:15	5	07:53 (KLZ_WT01)				21:49	17	06:34 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1691			895			575			35			286			99	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,59			0,57			0,65			0,70			0,70	
Total reduction		0,17			0,17			0,21			0,29			0,31			0,30	
Total, real		286			156			121			10			89			30	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09			06:57			07:44		08:18 (KLZ_WT17)	07:37		08:25 (KLZ_WT05)	08:26		13:10 (KLZ_WT20)
	22:04			21:34			20:33			19:25	30	08:48 (KLZ_WT17)	17:21	26	08:51 (KLZ_WT05)	16:42	47	15:37 (KLZ_WT13)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT17)	07:38		08:26 (KLZ_WT05)	08:27		13:07 (KLZ_WT20)
	22:04			21:32			20:31			19:23	32	08:49 (KLZ_WT17)	17:19	24	08:50 (KLZ_WT05)	16:41	55	15:39 (KLZ_WT13)
3	05:35		06:30 (TEN_WT01)	06:12			07:00			07:48		08:16 (KLZ_WT17)	07:40		08:12 (SAM_WT11)	08:29		13:04 (KLZ_WT20)
	22:04	3	06:33 (TEN_WT01)	21:30			20:29			19:21	32	08:48 (KLZ_WT17)	17:17	26	08:50 (KLZ_WT05)	16:41	63	15:40 (KLZ_WT13)
4	05:36		06:29 (TEN_WT01)	06:13			07:02			07:49		08:16 (KLZ_WT17)	07:42		08:09 (SAM_WT11)	08:30		13:03 (KLZ_WT20)
	22:03	6	06:35 (TEN_WT01)	21:29			20:27			19:19	32	08:48 (KLZ_WT17)	17:16	29	08:48 (KLZ_WT05)	16:40	67	15:42 (KLZ_WT13)
5	05:37		06:28 (TEN_WT01)	06:15			07:03			07:51		08:16 (KLZ_WT17)	07:44		08:11 (SAM_WT11)	08:31		09:06 (SAM_WT05)
	22:03	8	06:36 (TEN_WT01)	21:27			20:24			19:16	32	08:48 (KLZ_WT04)	17:14	25	08:47 (KLZ_WT05)	16:40	75	15:43 (KLZ_WT13)
6	05:37		06:27 (TEN_WT01)	06:16			07:05			07:53		08:17 (KLZ_WT17)	07:45		08:13 (SAM_WT11)	08:33		09:05 (SAM_WT05)
	22:02	10	06:37 (TEN_WT01)	21:25			20:22			19:14	31	08:48 (KLZ_WT04)	17:12	21	08:46 (KLZ_WT05)	16:39	79	15:43 (KLZ_WT13)
7	05:38		06:27 (TEN_WT01)	06:18			07:07			07:54		08:19 (SAM_WT08)	07:47		08:15 (SAM_WT11)	08:34		09:06 (SAM_WT05)
	22:02	11	06:38 (TEN_WT01)	21:24			20:20			19:12	29	08:48 (KLZ_WT04)	17:11	16	08:44 (KLZ_WT05)	16:39	83	15:45 (KLZ_WT13)
8	05:39		06:27 (TEN_WT01)	06:20			07:08			07:56		08:21 (SAM_WT08)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	12	06:39 (TEN_WT01)	21:22			20:18			19:10	27	08:48 (KLZ_WT04)	17:09	5	08:22 (SAM_WT04)	16:39	84	15:45 (KLZ_WT13)
9	05:40		06:26 (TEN_WT01)	06:21			07:10			07:57		08:22 (KLZ_WT17)	07:51		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:20			20:15			19:08	25	08:47 (KLZ_WT04)	17:07	13	16:19 (EVE_WT02)	16:38	85	15:46 (KLZ_WT13)
10	05:41		06:26 (TEN_WT01)	06:23			07:11			07:59		08:24 (KLZ_WT17)	07:52		08:21 (SAM_WT04)	08:37		09:09 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:18			20:13			19:05	33	18:12 (EVE_WT01)	17:06	15	16:21 (EVE_WT02)	16:38	87	15:46 (KLZ_WT13)
11	05:42		06:26 (TEN_WT01)	06:24			07:13		07:38 (KLZ_WT01)	08:01		08:26 (KLZ_WT17)	07:54		08:23 (SAM_WT04)	08:38		09:10 (SAM_WT05)
	21:59	15	06:41 (TEN_WT01)	21:16			20:11	6	07:44 (KLZ_WT01)	19:03	36	18:14 (EVE_WT01)	17:04	20	16:23 (EVE_WT02)	16:38	88	15:47 (KLZ_WT13)
12	05:43		06:26 (TEN_WT01)	06:26			07:14		07:39 (KLZ_WT01)	08:02		08:28 (KLZ_WT17)	07:56		08:36 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	16	06:42 (TEN_WT01)	21:14			20:09	5	07:44 (KLZ_WT01)	19:01	35	18:16 (EVE_WT01)	17:03	26	16:23 (EVE_WT02)	16:38	88	15:48 (KLZ_WT13)
13	05:44		06:25 (TEN_WT01)	06:27			07:16		07:41 (KLZ_WT01)	08:04		08:29 (KLZ_WT17)	07:57		08:35 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	17	06:42 (TEN_WT01)	21:13			20:06	3	07:44 (KLZ_WT01)	18:59	34	18:16 (EVE_WT01)	17:01	31	16:24 (EVE_WT02)	16:38	89	15:48 (KLZ_WT13)
14	05:45		06:25 (TEN_WT01)	06:29			07:17		07:42 (KLZ_WT01)	08:06		08:31 (KLZ_WT17)	07:59		08:35 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:57	18	06:43 (TEN_WT01)	21:11			20:04	8	07:53 (KLZ_WT02)	18:57	30	18:17 (EVE_WT01)	17:00	37	16:24 (EVE_WT02)	16:38	89	15:49 (KLZ_WT13)
15	05:46		06:25 (TEN_WT01)	06:30			07:19		07:45 (KLZ_WT02)	08:07		17:53 (EVE_WT01)	08:01		08:34 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56	18	06:43 (TEN_WT01)	21:09			20:02	9	07:54 (KLZ_WT02)	18:55	25	18:18 (EVE_WT01)	16:59	48	16:25 (EVE_WT02)	16:38	90	15:50 (KLZ_WT13)
16	05:48		06:25 (TEN_WT01)	06:32		06:59 (SAM_WT10)	07:21		07:45 (KLZ_WT02)	08:09		17:52 (EVE_WT01)	08:03		08:34 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55	18	06:43 (TEN_WT01)	21:07	6	07:05 (SAM_WT10)	20:00	9	07:54 (KLZ_WT02)	18:52	26	18:18 (EVE_WT01)	16:57	55	16:26 (EVE_WT02)	16:38	91	15:50 (KLZ_WT13)
17	05:49		06:25 (TEN_WT01)	06:34		07:00 (SAM_WT10)	07:22		07:47 (KLZ_WT02)	08:11		17:51 (EVE_WT01)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54	19	06:44 (TEN_WT01)	21:05	6	07:06 (SAM_WT10)	19:57	7	07:54 (KLZ_WT02)	18:50	26	18:17 (EVE_WT01)	16:56	59	16:25 (EVE_WT02)	16:38	92	15:51 (KLZ_WT13)
18	05:50		06:24 (TEN_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:49 (KLZ_WT02)	08:12		08:50 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53	20	06:44 (TEN_WT01)	21:03	5	07:07 (SAM_WT10)	19:55	5	07:54 (KLZ_WT02)	18:48	35	18:17 (EVE_WT01)	16:55	58	16:24 (EVE_WT02)	16:39	95	15:51 (KLZ_WT13)
19	05:51		06:24 (TEN_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (KLZ_WT02)	08:14		08:49 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	20	06:44 (TEN_WT01)	21:01	4	07:07 (SAM_WT10)	19:53	2	07:52 (KLZ_WT02)	18:46	45	18:17 (EVE_WT01)	16:53	58	16:22 (EVE_WT02)	16:39	97	15:52 (KLZ_WT13)
20	05:52		06:24 (TEN_WT01)	06:38		07:05 (SAM_WT10)	07:27			08:16		08:48 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	20	06:44 (TEN_WT01)	20:59	3	07:08 (SAM_WT10)	19:50			18:44	52	18:16 (EVE_WT01)	16:52	56	16:21 (EVE_WT02)	16:39	99	15:53 (KLZ_WT13)
21	05:54		06:25 (TEN_WT01)	06:40		07:06 (SAM_WT10)	07:28			08:18		08:46 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	19	06:44 (TEN_WT01)	20:57	1	07:07 (SAM_WT10)	19:48			18:42	57	18:14 (EVE_WT01)	16:51	54	16:20 (EVE_WT02)	16:40	99	15:53 (KLZ_WT13)
22	05:55		06:25 (TEN_WT01)	06:41			07:30			08:19		08:46 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	19	06:44 (TEN_WT01)	20:55			19:46			18:40	57	18:12 (EVE_WT01)	16:50	51	16:19 (EVE_WT02)	16:40	98	15:53 (KLZ_WT13)
23	05:56		06:25 (TEN_WT01)	06:43			07:32			08:21		08:47 (SAM_WT06)	08:14		08:44 (SAM_WT07)	08:48		09:19 (SAM_WT05)
	21:47	19	06:44 (TEN_WT01)	20:53			19:44			18:38	56	18:10 (EVE_WT01)	16:49	48	16:17 (EVE_WT02)	16:41	99	15:54 (KLZ_WT13)
24	05:58		06:26 (TEN_WT01)	06:44			07:33			08:23		08:49 (SAM_WT06)	08:16		08:46 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:45	17	06:43 (TEN_WT01)	20:50			19:41			18:36	53	18:08 (EVE_WT01)	16:48	45	16:16 (EVE_WT02)	16:41	97	15:55 (KLZ_WT13)
25	05:59		06:28 (TEN_WT01)	06:46			07:35		08:28 (KLZ_WT17)	07:24		07:51 (SAM_WT06)	08:17		08:48 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:44	15	06:43 (TEN_WT01)	20:48			19:39	13	08:41 (KLZ_WT17)	17:34	47	17:06 (EVE_WT01)	16:47	42	16:15 (EVE_WT02)	16:42	96	15:55 (KLZ_WT13)
26	06:00		06:29 (TEN_WT01)	06:48			07:36		08:25 (KLZ_WT17)	07:26		07:53 (SAM_WT06)	08:19		14:58 (KLZ_WT12)	08:49		09:20 (SAM_WT05)
	21:43	13	06:42 (TEN_WT01)	20:46			19:37	18	08:43 (KLZ_WT17)	17:32	40	17:04 (EVE_WT01)	16:46	39	16:14 (EVE_WT02)	16:43	93	15:55 (KLZ_WT13)
27	06:02		06:30 (TEN_WT01)	06:49			07:38		08:24 (KLZ_WT17)	07:28		07:54 (SAM_WT06)	08:20		14:59 (KLZ_WT12)	08:49		09:20 (SAM_WT05)
	21:41	11	06:41 (TEN_WT01)	20:44			19:34	22	08:46 (KLZ_WT17)	17:30	33	08:51 (KLZ_WT05)	16:45	36	15:35 (KLZ_WT12)	16:43	91	15:55 (KLZ_WT13)
28	06:03		06:32 (EAM_WT01)	06:51			07:40		08:21 (KLZ_WT17)	07:30		07:56 (SAM_WT06)	08:22		14:59 (KLZ_WT12)	08:49		09:20 (SAM_WT05)
	21:40	9	06:41 (TEN_WT01)	20:42			19:32	25	08:46 (KLZ_WT17)	17:28	29	08:51 (KLZ_WT05)	16:44	37	15:36 (KLZ_WT12)	16:44	90	15:55 (KLZ_WT13)
29	06:05		06:33 (EAM_WT01)	06:52			07:41		08:20 (KLZ_WT17)	07:31		08:24 (KLZ_WT05)	08:23		14:59 (KLZ_WT12)	08:49		09:20 (SAM_WT05)
	21:38	6	06:39 (TEN_WT01)	20:40			19:30	27	08:47 (KLZ_WT17)	17:26	28	08:52 (KLZ_WT05)	16:43	37	15:36 (KLZ_WT12)	16:45	89	15:56 (KLZ_WT13)
30	06:06		06:34 (EAM_WT01)	06:54			07:43		08:18 (KLZ_WT17)	07:33		08:24 (KLZ_WT05)	08:25		14:59 (KLZ_WT12)	08:50		09:20 (SAM_WT05)
	21:37	2	06:36 (EAM_WT01)	20:38			19:28	29	08:47 (KLZ_WT17)	17:25	28	08:52 (KLZ_WT05)	16:43	38	15:37 (KLZ_WT12)	16:46	90	15:56 (KLZ_WT13)
31	06:08		06:36 (EAM_WT01)	06:55						07:35		08:24 (KLZ_WT05)				08:50		09:20 (SAM_WT05)
	21:35	1	06:37 (EAM_WT01)	20:35						17:23	27	08:51 (KLZ_WT05)				16:47	88	15:56 (KLZ_WT13)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		390			25			188			1102			1075			2673	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,66			0,57			0,59			0,67			0,70	
Total reduction		0,30			0,30			0,24			0,21			0,17			0,15	
Total, real		119			7			46			230			187			413	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32		08:12 (SAM_WT06)	07:23			06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	120	14:59 (KLZ_WT20)	17:35	87	17:05 (EVE_WT02)	18:25	48	17:59 (EVE_WT01)	20:17			21:06	6	06:50 (SAM_WT10)	21:51	9	06:13 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		08:32 (KLZ_WT05)	07:21		07:43 (KLZ_WT02)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	121	14:59 (KLZ_WT20)	17:36	83	17:07 (EVE_WT02)	18:26	47	18:01 (EVE_WT01)	20:19	3	07:46 (KLZ_WT02)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		08:32 (KLZ_WT05)	07:19		07:41 (KLZ_WT02)	06:16		06:40 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	120	15:00 (KLZ_WT20)	17:38	77	17:09 (EVE_WT02)	18:28	50	18:03 (EVE_WT01)	20:20	6	07:47 (KLZ_WT02)	21:10	7	06:47 (SAM_WT10)	21:53	12	06:15 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:32 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:40 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	122	15:00 (KLZ_WT20)	17:40	56	17:11 (EVE_WT02)	18:30	54	18:05 (EVE_WT01)	20:22	8	07:47 (KLZ_WT02)	21:11	6	06:46 (SAM_WT10)	21:54	13	06:15 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:31 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	121	15:00 (KLZ_WT20)	17:42	59	17:13 (EVE_WT02)	18:32	55	18:06 (EVE_WT01)	20:24	10	07:47 (KLZ_WT02)	21:13			21:55	14	06:16 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:31 (KLZ_WT05)	07:12		07:34 (KLZ_WT01)	06:11			05:33		06:01 (TEN_WT01)
	16:54	122	16:20 (KLZ_WT13)	17:44	62	17:15 (EVE_WT02)	18:33	58	18:08 (EVE_WT01)	20:25	12	07:46 (KLZ_WT02)	21:14			21:56	15	06:16 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		08:32 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	124	16:22 (KLZ_WT13)	17:45	64	17:16 (EVE_WT02)	18:35	58	18:10 (EVE_WT01)	20:27	13	07:45 (KLZ_WT02)	21:16			21:57	16	06:17 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT11)	07:17		07:40 (SAM_WT08)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	127	16:23 (KLZ_WT13)	17:47	66	17:18 (EVE_WT02)	18:37	60	18:10 (EVE_WT01)	20:29	12	07:43 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:19 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	126	16:25 (KLZ_WT13)	17:49	66	17:18 (EVE_WT02)	18:39	62	18:10 (EVE_WT01)	20:30	7	07:35 (KLZ_WT01)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:20 (SAM_WT05)	08:09		08:35 (SAM_WT11)	07:13		07:35 (KLZ_WT17)	07:03		07:30 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	125	16:26 (KLZ_WT13)	17:51	63	17:17 (EVE_WT02)	18:40	65	18:09 (EVE_WT01)	20:32	3	07:33 (KLZ_WT01)	21:21			21:59	18	06:18 (TEN_WT01)
11	08:46		09:22 (SAM_WT05)	08:08		08:37 (SAM_WT11)	07:10		07:33 (KLZ_WT17)	07:01			06:03			05:31		06:00 (TEN_WT01)
	17:00	119	16:27 (KLZ_WT13)	17:53	57	17:16 (EVE_WT02)	18:42	66	18:08 (EVE_WT01)	20:34			21:22			22:00	19	06:19 (TEN_WT01)
12	08:46		11:44 (KLZ_WT06)	08:06		16:21 (KLZ_WT12)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	119	16:29 (KLZ_WT13)	17:54	49	17:15 (EVE_WT02)	18:44	63	18:07 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		11:45 (KLZ_WT06)	08:04		16:21 (KLZ_WT12)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	119	16:31 (KLZ_WT13)	17:56	45	17:13 (EVE_WT02)	18:45	60	18:06 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		11:46 (KLZ_WT06)	08:02		16:22 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:00 (TEN_WT01)
	17:05	118	16:32 (KLZ_WT13)	17:58	35	17:09 (EVE_WT02)	18:47	54	18:04 (EVE_WT01)	20:38			21:27			22:02	19	06:19 (TEN_WT01)
15	08:44		11:47 (KLZ_WT06)	08:00		16:23 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:00 (TEN_WT01)
	17:06	118	16:34 (KLZ_WT13)	18:00	31	16:54 (KLZ_WT12)	18:49	41	18:02 (EVE_WT01)	20:40			21:28			22:02	20	06:20 (TEN_WT01)
16	08:43		11:48 (KLZ_WT06)	07:58		16:24 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	116	16:35 (KLZ_WT13)	18:02	29	16:53 (KLZ_WT12)	18:50	31	07:53 (KLZ_WT17)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		11:49 (KLZ_WT06)	07:57		16:26 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53		06:19 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:09	116	16:37 (KLZ_WT13)	18:03	26	16:52 (KLZ_WT12)	18:52	34	07:53 (KLZ_WT17)	20:43			21:31	1	06:20 (EAM_WT02)	22:03	19	06:20 (TEN_WT01)
18	08:41		11:51 (KLZ_WT06)	07:55		08:18 (SAM_WT06)	06:55		07:17 (KLZ_WT17)	06:46			05:52		06:18 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:11	114	16:39 (KLZ_WT13)	18:05	24	16:50 (KLZ_WT12)	18:54	36	07:53 (KLZ_WT17)	20:45			21:33	1	06:19 (EAM_WT02)	22:04	19	06:20 (TEN_WT01)
19	08:40		11:53 (KLZ_WT06)	07:53		08:16 (SAM_WT06)	06:53		07:17 (KLZ_WT17)	06:44			05:51			05:29		06:01 (TEN_WT01)
	17:12	110	16:39 (KLZ_WT13)	18:07	26	16:48 (KLZ_WT12)	18:55	36	07:53 (KLZ_WT17)	20:47			21:34			22:04	20	06:21 (TEN_WT01)
20	08:39		09:07 (SAM_WT07)	07:51		08:14 (SAM_WT06)	06:50		07:16 (KLZ_WT17)	06:42			05:49		06:16 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:14	108	16:40 (KLZ_WT13)	18:09	35	16:45 (KLZ_WT12)	18:57	37	07:53 (KLZ_WT17)	20:48			21:35	1	06:17 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
21	08:38		09:05 (SAM_WT07)	07:49		08:12 (SAM_WT06)	06:48		07:16 (KLZ_WT17)	06:40			05:48		06:14 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:16	104	16:40 (KLZ_WT13)	18:11	32	09:02 (KLZ_WT05)	18:59	36	07:52 (KLZ_WT17)	20:50			21:37	2	06:16 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
22	08:37		09:04 (SAM_WT07)	07:47		08:10 (SAM_WT06)	06:46		07:16 (KLZ_WT17)	06:38			05:47		06:13 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:17	91	16:40 (KLZ_WT13)	18:12	39	09:04 (KLZ_WT05)	19:00	36	07:52 (KLZ_WT17)	20:52			21:38	3	06:16 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
23	08:36		09:03 (SAM_WT07)	07:45		08:08 (SAM_WT06)	06:44		07:16 (KLZ_WT17)	06:36			05:46		06:12 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:19	92	16:42 (KLZ_WT12)	18:14	44	09:05 (KLZ_WT05)	19:02	35	07:51 (KLZ_WT17)	20:53			21:40	3	06:15 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:07 (SAM_WT06)	06:41		07:16 (KLZ_WT17)	06:34			05:44		06:11 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:21	95	16:45 (KLZ_WT12)	18:16	47	09:06 (KLZ_WT05)	19:04	35	07:51 (KLZ_WT17)	20:55			21:41	3	06:14 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:08 (SAM_WT06)	06:39		07:16 (KLZ_WT17)	06:32			05:43		06:10 (EAM_WT01)	05:31		06:03 (TEN_WT01)
	17:22	97	16:46 (KLZ_WT12)	18:18	48	09:07 (KLZ_WT05)	19:05	33	07:49 (KLZ_WT17)	20:57			21:42	3	06:13 (EAM_WT01)	22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:08 (SAM_WT06)	06:37		07:17 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	96	16:48 (KLZ_WT12)	18:19	49	09:08 (KLZ_WT05)	19:07	31	07:48 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:09 (SAM_WT06)	06:35		07:18 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	96	16:49 (KLZ_WT12)	18:21	49	09:09 (KLZ_WT05)	19:09	29	07:47 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:57 (SAM_WT07)	07:34		08:10 (SAM_WT06)	06:32		07:18 (KLZ_WT17)	06:26		06:49 (SAM_WT10)	05:40			05:32		06:03 (TEN_WT01)
	17:28	96	16:51 (KLZ_WT12)	18:23	46	09:08 (KLZ_WT05)	19:10	26	07:44 (KLZ_WT17)	21:01	1	06:50 (SAM_WT10)	21:46			22:05	20	06:23 (TEN_WT01)
29	08:28		08:57 (SAM_WT07)				07:30		08:20 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	93	16:52 (KLZ_WT12)				20:12	22	08:42 (KLZ_WT17)	21:03	3	06:51 (SAM_WT10)	21:47	1	06:08 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:58 (SAM_WT07)				07:28		08:22 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	90	16:53 (KLZ_WT12)				20:14	18	08:40 (KLZ_WT17)	21:05	4	06:50 (SAM_WT10)	21:48	5	06:11 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:58 (SAM_WT07)				07:25		08:25 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	89	17:03 (EVE_WT02)				20:15	11	08:36 (KLZ_WT17)				21:49	7	06:12 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		3424			1394			1327			82			55			531	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,66			0,59			0,64			0,69			0,71	
Total reduction		0,17			0,19			0,22			0,29			0,31			0,31	
Total, real		567			269			289			24			17			162	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57			07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		11:24 (KLZ_WT06)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33			19:25	63	18:46 (EVE_WT01)	17:21	65	16:47 (EVE_WT02)	16:42	120	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:28 (KLZ_WT01)	07:46		08:11 (KLZ_WT17)	07:38		08:06 (SAM_WT11)	08:27		09:03 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	3	07:31 (KLZ_WT01)	19:23	64	18:47 (EVE_WT01)	17:19	67	16:48 (EVE_WT02)	16:41	124	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (KLZ_WT17)	07:40		08:08 (SAM_WT11)	08:29		09:02 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	7	07:33 (KLZ_WT01)	19:21	65	18:46 (EVE_WT01)	17:17	66	16:48 (EVE_WT02)	16:41	126	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT11)	08:30		09:02 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:29			20:27	12	07:40 (KLZ_WT02)	19:19	64	18:47 (EVE_WT01)	17:16	64	16:46 (EVE_WT02)	16:40	127	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:16 (SAM_WT08)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	13	07:42 (KLZ_WT02)	19:16	60	18:47 (EVE_WT01)	17:14	61	16:44 (EVE_WT02)	16:40	125	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:16			07:05		07:30 (KLZ_WT01)	07:53		08:17 (SAM_WT08)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	12	07:42 (KLZ_WT02)	19:14	60	18:46 (EVE_WT01)	17:12	58	16:42 (EVE_WT02)	16:39	122	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		09:07 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	10	07:42 (KLZ_WT02)	19:12	59	18:45 (EVE_WT01)	17:11	59	16:41 (EVE_WT02)	16:39	120	14:47 (KLZ_WT20)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		09:07 (KLZ_WT05)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	8	07:41 (KLZ_WT02)	19:10	57	18:43 (EVE_WT01)	17:09	76	16:39 (EVE_WT02)	16:39	121	14:48 (KLZ_WT20)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10		07:35 (KLZ_WT02)	07:57		09:06 (KLZ_WT05)	07:50		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	7	06:56 (SAM_WT10)	20:15	6	07:41 (KLZ_WT02)	19:08	55	18:40 (EVE_WT01)	17:07	83	16:38 (EVE_WT02)	16:38	120	14:48 (KLZ_WT20)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		07:36 (KLZ_WT02)	07:59		09:06 (KLZ_WT05)	07:52		08:31 (SAM_WT07)	08:37		09:09 (SAM_WT05)
	22:00	11	06:22 (TEN_WT01)	21:18	7	06:57 (SAM_WT10)	20:13	3	07:39 (KLZ_WT02)	19:05	52	18:38 (EVE_WT01)	17:06	87	16:36 (EVE_WT02)	16:38	121	14:48 (KLZ_WT20)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13			08:01		09:06 (KLZ_WT05)	07:54		08:30 (SAM_WT07)	08:38		09:10 (SAM_WT05)
	21:59	10	06:22 (TEN_WT01)	21:16	6	06:57 (SAM_WT10)	20:11			19:03	49	18:36 (EVE_WT01)	17:04	90	16:35 (EVE_WT02)	16:38	120	14:49 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:17 (KLZ_WT17)	08:02		09:06 (KLZ_WT05)	07:56		08:29 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	8	06:21 (TEN_WT01)	21:14	5	06:58 (SAM_WT10)	20:09	10	08:27 (KLZ_WT17)	19:01	45	18:34 (EVE_WT01)	17:03	90	16:24 (KLZ_WT12)	16:38	121	14:49 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:14 (KLZ_WT17)	08:04		08:44 (SAM_WT06)	07:57		08:29 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	6	06:20 (TEN_WT01)	21:13	4	06:58 (SAM_WT10)	20:06	17	08:31 (KLZ_WT17)	18:59	47	18:31 (EVE_WT01)	17:01	93	16:24 (KLZ_WT12)	16:38	121	14:50 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:10 (KLZ_WT17)	08:06		08:42 (SAM_WT06)	07:59		08:29 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:56	4	06:19 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	22	08:32 (KLZ_WT17)	18:57	47	09:41 (KLZ_WT05)	17:00	96	16:23 (KLZ_WT12)	16:38	120	14:50 (KLZ_WT20)
15	05:46			06:30		06:57 (SAM_WT10)	07:19		08:09 (KLZ_WT17)	08:07		08:41 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56			21:09	1	06:58 (SAM_WT10)	20:02	25	08:34 (KLZ_WT17)	18:55	49	09:41 (KLZ_WT05)	16:59	96	16:22 (KLZ_WT12)	16:38	120	14:51 (KLZ_WT20)
16	05:48			06:32			07:21		08:07 (KLZ_WT17)	08:09		08:39 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55			21:07			20:00	28	08:35 (KLZ_WT17)	18:52	50	09:39 (KLZ_WT05)	16:57	96	16:21 (KLZ_WT12)	16:38	120	14:52 (KLZ_WT20)
17	05:49			06:33			07:22		08:05 (KLZ_WT17)	08:11		08:39 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54			21:05			19:57	31	08:36 (KLZ_WT17)	18:50	48	09:38 (KLZ_WT05)	16:56	97	16:20 (KLZ_WT12)	16:38	118	14:52 (KLZ_WT20)
18	05:50			06:35			07:24		08:04 (KLZ_WT17)	08:12		08:39 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53			21:03			19:55	32	08:36 (KLZ_WT17)	18:48	45	09:37 (KLZ_WT05)	16:55	95	16:19 (KLZ_WT12)	16:39	120	14:52 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37			07:25		08:03 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	3	06:23 (EAM_WT01)	21:01			19:53	34	08:37 (KLZ_WT17)	18:46	42	09:36 (KLZ_WT05)	16:53	92	16:16 (KLZ_WT12)	16:39	120	14:53 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38			07:27		08:03 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	3	06:24 (EAM_WT01)	20:59			19:50	35	08:38 (KLZ_WT17)	18:44	36	09:34 (KLZ_WT05)	16:52	91	16:15 (KLZ_WT13)	16:39	120	14:54 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40			07:28		08:01 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	3	06:26 (EAM_WT01)	20:57			19:48	36	08:37 (KLZ_WT17)	18:42	29	09:31 (KLZ_WT05)	16:51	104	16:16 (KLZ_WT13)	16:40	120	14:54 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41			07:30		08:01 (KLZ_WT17)	08:19		08:45 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	2	06:26 (EAM_WT01)	20:55			19:46	37	08:38 (KLZ_WT17)	18:40	32	17:16 (KLZ_WT12)	16:50	108	16:16 (KLZ_WT13)	16:40	120	14:55 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43			07:32		08:00 (KLZ_WT17)	08:21		08:47 (SAM_WT06)	08:14		11:29 (KLZ_WT06)	08:48		09:19 (SAM_WT05)
	21:47	1	06:26 (EAM_WT01)	20:53			19:44	37	08:37 (KLZ_WT17)	18:38	24	17:19 (KLZ_WT12)	16:49	111	16:16 (KLZ_WT13)	16:41	120	14:55 (KLZ_WT20)
24	05:58			06:44			07:33		08:00 (KLZ_WT17)	08:23		16:57 (KLZ_WT12)	08:16		11:28 (KLZ_WT06)	08:48		09:19 (SAM_WT05)
	21:45			20:50			19:41	37	08:37 (KLZ_WT17)	18:36	24	17:21 (KLZ_WT12)	16:48	114	16:16 (KLZ_WT13)	16:41	120	14:55 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46			07:35		07:59 (KLZ_WT17)	07:24		15:56 (KLZ_WT12)	08:17		11:27 (KLZ_WT06)	08:48		09:20 (SAM_WT05)
	21:44	1	06:29 (EAM_WT02)	20:48			19:39	37	08:36 (KLZ_WT17)	17:34	26	16:22 (KLZ_WT12)	16:47	115	16:15 (KLZ_WT13)	16:42	120	14:56 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48			07:36		08:01 (KLZ_WT17)	07:26		15:54 (KLZ_WT12)	08:19		11:26 (KLZ_WT06)	08:49		09:20 (SAM_WT05)
	21:43	1	06:30 (EAM_WT02)	20:46			19:37	35	08:36 (KLZ_WT17)	17:32	30	16:24 (KLZ_WT12)	16:46	117	16:14 (KLZ_WT13)	16:43	119	14:56 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:52 (KLZ_WT12)	08:20		11:26 (KLZ_WT06)	08:49		09:20 (SAM_WT05)
	21:41			20:44			19:34	32	08:35 (KLZ_WT17)	17:30	32	16:24 (KLZ_WT12)	16:45	118	16:13 (KLZ_WT13)	16:43	119	14:56 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:51 (KLZ_WT12)	08:22		11:26 (KLZ_WT06)	08:49		09:20 (SAM_WT05)
	21:40			20:42			19:32	39	18:41 (EVE_WT01)	17:28	39	16:40 (EVE_WT02)	16:44	118	16:12 (KLZ_WT13)	16:44	121	14:57 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		15:51 (KLZ_WT12)	08:23		11:25 (KLZ_WT06)	08:49		09:20 (SAM_WT05)
	21:38			20:40			19:30	50	18:44 (EVE_WT01)	17:26	45	16:43 (EVE_WT02)	16:43	119	16:11 (KLZ_WT13)	16:45	119	14:57 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		15:50 (KLZ_WT12)	08:25		11:25 (KLZ_WT06)	08:50		09:20 (SAM_WT05)
	21:37			20:38			19:28	59	18:45 (EVE_WT01)	17:25	51	16:45 (EVE_WT02)	16:43	119	16:10 (KLZ_WT13)	16:46	121	14:58 (KLZ_WT20)
31	06:08			06:55						07:35		08:06 (SAM_WT11)				08:50		09:20 (SAM_WT05)
	21:35			20:35						17:23	59	16:46 (EVE_WT02)				16:47	120	14:58 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		200			32			707			1448			2765			3745	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,67			0,59			0,61			0,69			0,68	
Total reduction		0,31			0,31			0,25			0,22			0,18			0,15	
Total, real		62			10			177			312			499			556	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (SAM_WT06)	08:24		17:01 (KLZ_WT12)	07:32		08:26 (KLZ_WT02)	07:23			06:20		06:52 (SAM_WT10)	05:36		06:07 (EAM_WT01)
	16:48	122	16:14 (KLZ_WT20)	17:35	4	17:05 (KLZ_WT12)	18:25	18	08:44 (KLZ_WT02)	20:17			21:06	12	07:04 (SAM_WT10)	21:51	10	06:17 (EAM_WT01)
2	08:50		09:33 (SAM_WT06)	08:23		17:00 (KLZ_WT12)	07:30		08:28 (KLZ_WT02)	07:21			06:18		06:54 (SAM_WT10)	05:35		06:07 (EAM_WT01)
	16:49	121	16:15 (KLZ_WT20)	17:36	7	17:07 (KLZ_WT12)	18:26	14	08:42 (KLZ_WT02)	20:19			21:08	7	07:01 (SAM_WT10)	21:52	10	06:17 (EAM_WT01)
3	08:49		09:33 (SAM_WT06)	08:21		17:00 (KLZ_WT12)	07:28		08:30 (KLZ_WT02)	07:19			06:16			05:35		06:09 (EAM_WT01)
	16:50	120	16:17 (KLZ_WT20)	17:38	9	17:09 (KLZ_WT12)	18:28	10	08:40 (KLZ_WT02)	20:20			21:09			21:53	8	06:17 (EAM_WT01)
4	08:49		09:33 (SAM_WT06)	08:19		17:01 (KLZ_WT12)	07:26			07:16		07:39 (SAM_WT01)	06:15			05:34		06:09 (EAM_WT01)
	16:51	119	16:17 (KLZ_WT20)	17:40	10	17:11 (EVE_WT02)	18:30			20:22	2	07:41 (SAM_WT01)	21:11			21:54	7	06:16 (EAM_WT01)
5	08:49		09:34 (SAM_WT06)	08:18		17:01 (KLZ_WT12)	07:24			07:14		07:37 (SAM_WT01)	06:13			05:33		06:11 (EAM_WT01)
	16:52	117	16:19 (KLZ_WT20)	17:42	12	17:13 (EVE_WT02)	18:32			20:24	2	07:39 (SAM_WT01)	21:13			21:55	4	06:15 (EAM_WT01)
6	08:49		09:34 (SAM_WT06)	08:16		17:01 (KLZ_WT12)	07:21			07:12			06:11			05:33		
	16:54	114	16:20 (KLZ_WT20)	17:44	14	17:15 (EVE_WT02)	18:33			20:25			21:14			21:56		
7	08:48		09:35 (SAM_WT06)	08:15		17:02 (KLZ_WT12)	07:19		07:44 (KLZ_WT01)	07:10			06:09			05:32		
	16:55	110	16:22 (KLZ_WT20)	17:45	14	17:16 (EVE_WT02)	18:35	9	07:53 (KLZ_WT01)	20:27			21:16			21:56		
8	08:48		09:35 (SAM_WT06)	08:13		17:04 (KLZ_WT12)	07:17		07:42 (KLZ_WT01)	07:08			06:07			05:32		
	16:56	104	16:22 (KLZ_WT20)	17:47	15	17:19 (EVE_WT02)	18:37	13	07:55 (KLZ_WT01)	20:29			21:17			21:57		
9	08:48		09:37 (SAM_WT06)	08:11		17:05 (KLZ_WT12)	07:15		07:41 (KLZ_WT01)	07:05			06:06			05:31		
	16:57	104	16:25 (KLZ_WT20)	17:49	14	17:20 (EVE_WT02)	18:38	15	07:56 (KLZ_WT01)	20:30			21:19			21:58		
10	08:47		09:37 (SAM_WT06)	08:09			07:13		07:39 (KLZ_WT01)	07:03			06:04			05:31		
	16:59	103	16:26 (KLZ_WT20)	17:51			18:40	17	07:56 (KLZ_WT01)	20:32			21:21			21:59		
11	08:46		09:37 (SAM_WT06)	08:08			07:10		07:39 (KLZ_WT01)	07:01			06:03			05:30		
	17:00	102	16:27 (KLZ_WT20)	17:53			18:42	17	07:56 (KLZ_WT01)	20:33			21:22			22:00		
12	08:46		09:39 (SAM_WT06)	08:06			07:08		07:39 (KLZ_WT01)	06:59			06:01		06:26 (EAM_WT03)	05:30		
	17:02	98	16:29 (KLZ_WT20)	17:54			18:44	17	07:56 (KLZ_WT01)	20:35			21:24	2	06:28 (EAM_WT03)	22:00		
13	08:45		09:39 (SAM_WT06)	08:04			07:06		07:38 (KLZ_WT01)	06:57			05:59		06:25 (EAM_WT03)	05:30		
	17:03	95	16:31 (KLZ_WT20)	17:56			18:45	17	07:55 (KLZ_WT01)	20:37			21:25	3	06:28 (EAM_WT03)	22:01		
14	08:44		09:40 (SAM_WT06)	08:02		08:26 (SAM_WT08)	07:04		07:38 (KLZ_WT01)	06:55			05:58		06:23 (EAM_WT03)	05:30		
	17:05	88	16:32 (KLZ_WT20)	17:58	1	08:27 (SAM_WT08)	18:47	16	07:54 (KLZ_WT01)	20:38			21:27	4	06:27 (EAM_WT03)	22:02		
15	08:44		09:41 (SAM_WT06)	08:00		08:24 (SAM_WT08)	07:02		07:39 (KLZ_WT01)	06:52		07:15 (SAM_WT09)	05:56		06:22 (EAM_WT02)	05:30		
	17:06	86	16:34 (KLZ_WT20)	18:00	3	08:27 (SAM_WT08)	18:49	14	07:53 (KLZ_WT01)	20:40	1	07:16 (SAM_WT09)	21:28	5	06:27 (EAM_WT03)	22:02		
16	08:43		09:42 (SAM_WT06)	07:58		08:22 (SAM_WT08)	06:59		07:22 (SWB_WT01_RP)	06:50		07:13 (SAM_WT09)	05:55		06:21 (EAM_WT02)	05:29		
	17:08	83	16:35 (KLZ_WT20)	18:02	11	08:40 (KLZ_WT02)	18:50	11	07:51 (KLZ_WT01)	20:42	2	07:15 (SAM_WT09)	21:30	5	06:26 (EAM_WT03)	22:03		
17	08:42		09:44 (SAM_WT06)	07:56		08:20 (SAM_WT08)	06:57		07:19 (SWB_WT01_RP)	06:48		07:11 (SAM_WT09)	05:53		06:19 (EAM_WT02)	05:29		
	17:09	78	16:36 (KLZ_WT20)	18:03	18	08:43 (KLZ_WT02)	18:52	4	07:46 (KLZ_WT01)	20:43	3	07:14 (SAM_WT09)	21:31	4	06:23 (EAM_WT02)	22:03		
18	08:41		09:46 (SAM_WT06)	07:55		08:18 (SAM_WT08)	06:55		07:17 (SAM_WT02)	06:46		07:09 (SAM_WT09)	05:52		06:18 (EAM_WT02)	05:29		
	17:11	71	16:37 (KLZ_WT20)	18:05	23	08:45 (KLZ_WT02)	18:54	1	07:18 (SAM_WT02)	20:45	3	07:12 (SAM_WT09)	21:33	6	06:24 (EAM_WT02)	22:03		
19	08:40		09:50 (SAM_WT06)	07:53		08:17 (SAM_WT08)	06:53		07:15 (SAM_WT02)	06:44		07:07 (SAM_WT10)	05:51		06:17 (EAM_WT02)	05:29		
	17:12	61	16:37 (KLZ_WT20)	18:07	25	08:46 (KLZ_WT02)	18:55	3	07:18 (SAM_WT02)	20:47	1	07:08 (SAM_WT10)	21:34	7	06:24 (EAM_WT02)	22:04		
20	08:39		11:31 (KLZ_WT17)	07:51		08:26 (KLZ_WT02)	06:50		07:13 (SAM_WT02)	06:42		07:05 (SAM_WT10)	05:49		06:16 (EAM_WT01)	05:29		
	17:14	52	16:37 (KLZ_WT20)	18:09	22	17:42 (EVE_WT01)	18:57	4	07:17 (SAM_WT02)	20:48	4	07:09 (SAM_WT10)	21:35	8	06:24 (EAM_WT02)	22:04		
21	08:38		11:33 (KLZ_WT17)	07:49		08:26 (KLZ_WT02)	06:48		07:11 (SAM_WT02)	06:40		07:03 (SAM_WT10)	05:48		06:14 (EAM_WT01)	05:30		
	17:16	46	16:37 (KLZ_WT20)	18:11	26	17:44 (EVE_WT01)	18:59	3	07:14 (SAM_WT02)	20:50	6	07:09 (SAM_WT10)	21:37	8	06:22 (EAM_WT02)	22:04		
22	08:37		11:39 (KLZ_WT17)	07:47		08:25 (KLZ_WT02)	06:46		07:08 (SAM_WT03)	06:38		07:01 (SAM_WT10)	05:47		06:13 (EAM_WT01)	05:30		
	17:17	34	16:37 (KLZ_WT20)	18:12	29	17:46 (EVE_WT01)	19:00	2	07:10 (SAM_WT03)	20:52	9	07:10 (SAM_WT10)	21:38	8	06:21 (EAM_WT02)	22:05		
23	08:36		16:12 (KLZ_WT20)	07:45		08:25 (KLZ_WT02)	06:44		07:06 (SAM_WT03)	06:36		06:59 (SAM_WT10)	05:45		06:12 (EAM_WT01)	05:30		
	17:19	25	16:37 (KLZ_WT20)	18:14	32	17:48 (EVE_WT01)	19:02	4	07:10 (SAM_WT03)	20:53	11	07:10 (SAM_WT10)	21:40	8	06:20 (EAM_WT02)	22:05		
24	08:35		16:13 (KLZ_WT20)	07:43		08:25 (KLZ_WT02)	06:41		07:03 (SAM_WT03)	06:34		06:57 (SAM_WT10)	05:44		06:11 (EAM_WT01)	05:30		
	17:21	24	16:37 (KLZ_WT20)	18:16	33	17:50 (EVE_WT01)	19:04	6	07:09 (SAM_WT03)	20:55	13	07:10 (SAM_WT10)	21:41	7	06:18 (EAM_WT01)	22:05		
25	08:34		16:13 (KLZ_WT20)	07:41		08:25 (KLZ_WT02)	06:39		07:01 (SAM_WT03)	06:32		06:55 (SAM_WT10)	05:43		06:10 (EAM_WT01)	05:31		
	17:22	24	16:51 (KLZ_WT13)	18:18	34	17:52 (EVE_WT01)	19:05	7	07:08 (SAM_WT03)	20:56	14	07:09 (SAM_WT10)	21:42	8	06:18 (EAM_WT01)	22:05		
26	08:32		16:15 (KLZ_WT20)	07:38		08:25 (KLZ_WT02)	06:37		07:01 (SAM_WT03)	06:30		06:53 (SAM_WT10)	05:42		06:09 (EAM_WT01)	05:31		
	17:24	24	16:54 (KLZ_WT13)	18:19	31	17:51 (EVE_WT01)	19:07	5	07:06 (SAM_WT03)	20:58	16	07:09 (SAM_WT10)	21:43	9	06:18 (EAM_WT01)	22:05		
27	08:31		16:16 (KLZ_WT20)	07:36		08:26 (KLZ_WT02)	06:34			06:28		06:51 (SAM_WT10)	05:41		06:08 (EAM_WT01)	05:31		
	17:26	23	16:55 (KLZ_WT13)	18:21	21	08:47 (KLZ_WT02)	19:09			21:00	17	07:08 (SAM_WT10)	21:45	10	06:18 (EAM_WT01)	22:05		
28	08:30		16:18 (KLZ_WT20)	07:34		08:25 (KLZ_WT02)	06:32			06:26		06:49 (SAM_WT10)	05:40		06:07 (EAM_WT01)	05:32		
	17:27	22	16:57 (KLZ_WT13)	18:23	21	08:46 (KLZ_WT02)	19:10			21:01	18	07:07 (SAM_WT10)	21:46	11	06:18 (EAM_WT01)	22:05		
29	08:28		16:20 (KLZ_WT20)				07:30		07:52 (SWB_WT02_RP)	06:24		06:50 (SAM_WT10)	05:39		06:06 (EAM_WT01)	05:32		
	17:29	19	16:59 (KLZ_WT13)				20:12	1	07:53 (SWB_WT02_RP)	21:03	17	07:07 (SAM_WT10)	21:47	12	06:18 (EAM_WT01)	22:05		
30	08:27		16:24 (KLZ_WT20)				07:28		07:50 (SWB_WT02_RP)	06:22		06:51 (SAM_WT10)	05:38		06:06 (EAM_WT01)	05:33		
	17:31	13	17:01 (KLZ_WT13)				20:14	1	07:51 (SWB_WT02_RP)	21:05	15	07:06 (SAM_WT10)	21:48	12	06:18 (EAM_WT01)	22:04		
31	08:25		16:55 (KLZ_WT13)				07:25						05:37		06:07 (EAM_WT01)			
	17:33	8	17:03 (KLZ_WT12)				20:15						21:49	11	06:18 (EAM_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2210			429			229			154			167			39	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,64			0,60			0,57			0,65			0,70			0,70	
Total reduction		0,15			0,18			0,21			0,30			0,31			0,30	
Total, real		342			76			48			45			52			12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (EAM_WT03)	06:57			07:44		08:17 (KLZ_WT01)	07:37		16:38 (KLZ_WT12)	08:26		09:19 (SAM_WT06)
	22:04			21:34	1	06:38 (EAM_WT03)	20:33			19:25	18	08:35 (KLZ_WT01)	17:21	2	16:40 (KLZ_WT12)	16:42	102	16:09 (KLZ_WT20)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT01)	07:38		16:35 (KLZ_WT12)	08:27		09:20 (SAM_WT06)
	22:04			21:32			20:31			19:23	18	08:35 (KLZ_WT01)	17:19	15	16:50 (EVE_WT02)	16:41	103	16:09 (KLZ_WT20)
3	05:35			06:12			07:00			07:48		08:17 (KLZ_WT01)	07:40		16:32 (KLZ_WT12)	08:29		09:20 (SAM_WT06)
	22:04			21:30			20:29			19:21	17	08:34 (KLZ_WT01)	17:17	16	16:48 (EVE_WT02)	16:41	104	16:08 (KLZ_WT20)
4	05:36			06:13			07:02			07:49		08:17 (KLZ_WT01)	07:42		16:31 (KLZ_WT12)	08:30		09:20 (SAM_WT06)
	22:03			21:29			20:27			19:19	16	08:33 (KLZ_WT01)	17:16	15	16:46 (EVE_WT02)	16:40	105	16:08 (KLZ_WT20)
5	05:37			06:15			07:03			07:51		08:18 (KLZ_WT01)	07:43		16:31 (KLZ_WT12)	08:31		09:20 (SAM_WT06)
	22:03			21:27			20:24			19:16	14	08:32 (KLZ_WT01)	17:14	13	16:44 (EVE_WT02)	16:40	109	16:07 (KLZ_WT20)
6	05:37			06:16			07:05			07:53		08:19 (KLZ_WT01)	07:45		16:30 (KLZ_WT12)	08:33		09:20 (SAM_WT06)
	22:02			21:25			20:22			19:14	11	08:30 (KLZ_WT01)	17:12	12	16:42 (EVE_WT02)	16:39	114	16:06 (KLZ_WT20)
7	05:38		06:18 (EAM_WT01)	06:18			07:06		07:32 (SAM_WT01)	07:54		08:21 (KLZ_WT01)	07:47		16:30 (KLZ_WT12)	08:34		09:21 (SAM_WT06)
	22:02	3	06:21 (EAM_WT01)	21:24			20:20	2	07:34 (SAM_WT01)	19:12	7	08:28 (KLZ_WT01)	17:11	11	16:41 (EVE_WT02)	16:39	116	16:06 (KLZ_WT20)
8	05:39		06:17 (EAM_WT01)	06:19			07:08		07:33 (SAM_WT01)	07:56			07:49		16:31 (KLZ_WT12)	08:35		09:21 (SAM_WT06)
	22:01	6	06:23 (EAM_WT01)	21:22			20:18	2	07:35 (SAM_WT01)	19:10			17:09	8	16:39 (KLZ_WT12)	16:39	118	16:05 (KLZ_WT20)
9	05:40		06:16 (EAM_WT01)	06:21			07:10			07:57			07:50		16:31 (KLZ_WT12)	08:36		09:21 (SAM_WT06)
	22:00	8	06:24 (EAM_WT01)	21:20			20:15			19:08			17:07	7	16:38 (KLZ_WT12)	16:38	121	16:05 (KLZ_WT20)
10	05:41		06:16 (EAM_WT01)	06:23			07:11			07:59		09:07 (KLZ_WT02)	07:52		16:32 (KLZ_WT12)	08:37		09:22 (SAM_WT06)
	22:00	9	06:25 (EAM_WT01)	21:18			20:13			19:05	4	09:11 (KLZ_WT02)	17:06	4	16:36 (KLZ_WT12)	16:38	120	16:04 (KLZ_WT20)
11	05:42		06:16 (EAM_WT01)	06:24		07:02 (SAM_WT10)	07:13			08:01		09:03 (KLZ_WT02)	07:54		16:26 (KLZ_WT13)	08:38		09:22 (SAM_WT06)
	21:59	10	06:26 (EAM_WT01)	21:16	9	07:11 (SAM_WT10)	20:11			19:03	12	09:15 (KLZ_WT02)	17:04	9	16:35 (KLZ_WT12)	16:38	122	16:04 (KLZ_WT20)
12	05:43		06:15 (EAM_WT01)	06:26		07:00 (SAM_WT10)	07:14			08:02		09:00 (KLZ_WT02)	07:56		15:54 (KLZ_WT20)	08:39		09:22 (SAM_WT06)
	21:58	11	06:26 (EAM_WT01)	21:14	13	07:13 (SAM_WT10)	20:09			19:01	16	09:16 (KLZ_WT02)	17:03	14	16:32 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
13	05:44		06:15 (EAM_WT01)	06:27		06:58 (SAM_WT10)	07:16		07:41 (SWB_WT02_RP)	08:04		08:59 (KLZ_WT02)	07:57		15:51 (KLZ_WT20)	08:40		09:23 (SAM_WT06)
	21:57	12	06:27 (EAM_WT01)	21:13	16	07:14 (SAM_WT10)	20:06	1	07:42 (SWB_WT02_RP)	18:59	19	09:18 (KLZ_WT02)	17:01	20	16:31 (KLZ_WT13)	16:38	125	16:04 (KLZ_WT20)
14	05:45		06:15 (EAM_WT01)	06:29		06:58 (SAM_WT10)	07:17		07:42 (SWB_WT02_RP)	08:06		08:58 (KLZ_WT02)	07:59		15:50 (KLZ_WT20)	08:41		09:23 (SAM_WT06)
	21:56	12	06:27 (EAM_WT01)	21:11	17	07:15 (SAM_WT10)	20:04	1	07:43 (SWB_WT02_RP)	18:57	21	09:19 (KLZ_WT02)	17:00	22	16:29 (KLZ_WT13)	16:38	123	16:04 (KLZ_WT20)
15	05:46		06:16 (EAM_WT01)	06:30		06:57 (SAM_WT10)	07:19			08:07		08:58 (KLZ_WT02)	08:01		15:49 (KLZ_WT20)	08:42		09:24 (SAM_WT06)
	21:56	11	06:27 (EAM_WT01)	21:09	18	07:15 (SAM_WT10)	20:02			18:55	27	18:22 (EVE_WT01)	16:58	23	16:28 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
16	05:47		06:17 (EAM_WT01)	06:32		06:59 (SAM_WT10)	07:21			08:09		08:56 (KLZ_WT02)	08:02		15:48 (KLZ_WT20)	08:43		09:25 (SAM_WT06)
	21:55	11	06:28 (EAM_WT01)	21:07	17	07:16 (SAM_WT10)	19:59			18:52	32	18:23 (EVE_WT01)	16:57	24	16:27 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
17	05:49		06:18 (EAM_WT01)	06:33		07:00 (SAM_WT10)	07:22		07:50 (SAM_WT03)	08:11		08:56 (KLZ_WT02)	08:04		15:47 (KLZ_WT20)	08:44		09:25 (SAM_WT06)
	21:54	10	06:28 (EAM_WT01)	21:05	16	07:16 (SAM_WT10)	19:57	4	07:54 (SAM_WT03)	18:50	34	18:22 (EVE_WT01)	16:56	24	16:25 (KLZ_WT13)	16:38	126	16:05 (KLZ_WT20)
18	05:50		06:19 (EAM_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:48 (SAM_WT03)	08:12		08:56 (KLZ_WT02)	08:06		15:47 (KLZ_WT20)	08:45		09:25 (SAM_WT06)
	21:52	9	06:28 (EAM_WT01)	21:03	14	07:16 (SAM_WT10)	19:55	7	07:55 (SAM_WT03)	18:48	32	18:20 (EVE_WT01)	16:55	24	16:11 (KLZ_WT20)	16:39	124	16:04 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (SAM_WT03)	08:14		08:56 (KLZ_WT02)	08:07		15:46 (KLZ_WT20)	08:45		09:26 (SAM_WT06)
	21:51	8	06:28 (EAM_WT01)	21:01	12	07:15 (SAM_WT10)	19:53	6	07:56 (SAM_WT03)	18:46	31	18:18 (EVE_WT01)	16:53	25	16:11 (KLZ_WT20)	16:39	126	16:05 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38		07:05 (SAM_WT10)	07:27		07:52 (SAM_WT03)	08:16		08:57 (KLZ_WT02)	08:09		11:14 (KLZ_WT17)	08:46		09:27 (SAM_WT06)
	21:50	8	06:29 (EAM_WT02)	20:59	10	07:15 (SAM_WT10)	19:50	5	07:57 (SAM_WT03)	18:44	28	18:16 (EVE_WT01)	16:52	34	16:12 (KLZ_WT20)	16:39	123	16:05 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40		07:06 (SAM_WT10)	07:28		07:53 (SAM_WT03)	08:18		08:56 (KLZ_WT02)	08:11		11:09 (KLZ_WT17)	08:47		09:27 (SAM_WT06)
	21:49	8	06:31 (EAM_WT02)	20:57	8	07:14 (SAM_WT10)	19:48	3	07:56 (SAM_WT03)	18:42	25	18:14 (EVE_WT01)	16:51	46	16:13 (KLZ_WT20)	16:40	123	16:05 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41		07:08 (SAM_WT10)	07:30			08:19		08:57 (KLZ_WT02)	08:12		11:07 (KLZ_WT17)	08:47		09:28 (SAM_WT06)
	21:48	8	06:32 (EAM_WT02)	20:55	6	07:14 (SAM_WT10)	19:46			18:40	21	18:12 (EVE_WT01)	16:50	52	16:13 (KLZ_WT20)	16:40	123	16:06 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43		07:09 (SAM_WT10)	07:32		07:56 (SAM_WT02)	08:21		08:47 (SAM_WT08)	08:14		09:26 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:47	8	06:33 (EAM_WT02)	20:53	3	07:12 (SAM_WT10)	19:44	4	08:00 (SAM_WT02)	18:38	26	09:16 (KLZ_WT02)	16:49	60	16:13 (KLZ_WT20)	16:41	123	16:06 (KLZ_WT20)
24	05:58		06:26 (EAM_WT02)	06:44			07:33		07:58 (SAM_WT02)	08:23		08:49 (SAM_WT08)	08:16		09:23 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:45	7	06:33 (EAM_WT02)	20:50			19:41	3	08:01 (SAM_WT02)	18:36	22	09:15 (KLZ_WT02)	16:48	71	16:14 (KLZ_WT20)	16:41	124	16:07 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46		07:12 (SAM_WT09)	07:35		07:59 (SAM_WT02)	07:24		07:51 (SAM_WT08)	08:17		09:22 (SAM_WT06)	08:48		09:29 (SAM_WT06)
	21:44	6	06:34 (EAM_WT02)	20:48	4	07:16 (SAM_WT09)	19:39	2	08:01 (SAM_WT02)	17:34	17	08:13 (KLZ_WT02)	16:47	78	16:14 (KLZ_WT20)	16:42	124	16:08 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48		07:14 (SAM_WT09)	07:36		08:01 (SWB_WT01_RP)	07:26		07:53 (SAM_WT08)	08:19		09:21 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:43	5	06:34 (EAM_WT02)	20:46	3	07:17 (SAM_WT09)	19:37	2	08:03 (SWB_WT01_RP)	17:32	6	08:09 (KLZ_WT02)	16:46	81	16:13 (KLZ_WT20)	16:43	124	16:08 (KLZ_WT20)
27	06:02		06:30 (EAM_WT02)	06:49		07:15 (SAM_WT09)	07:38		08:03 (SWB_WT01_RP)	07:28		07:54 (SAM_WT08)	08:20		09:20 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:41	5	06:35 (EAM_WT03)	20:44	2	07:17 (SAM_WT09)	19:34	10	08:32 (KLZ_WT01)	17:30	3	07:57 (SAM_WT08)	16:45	85	16:13 (KLZ_WT20)	16:43	125	16:09 (KLZ_WT20)
28	06:03		06:32 (EAM_WT02)	06:51		07:17 (SAM_WT09)	07:40		08:21 (KLZ_WT01)	07:30			08:22		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:40	5	06:37 (EAM_WT03)	20:42	1	07:18 (SAM_WT09)	19:32	12	08:33 (KLZ_WT01)	17:28			16:44	88	16:12 (KLZ_WT20)	16:44	124	16:10 (KLZ_WT20)
29	06:05		06:33 (EAM_WT02)	06:52			07:41		08:20 (KLZ_WT01)	07:31			08:23		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:38	4	06:37 (EAM_WT03)	20:40			19:30	14	08:34 (KLZ_WT01)	17:26			16:43	94	16:11 (KLZ_WT20)	16:45	125	16:10 (KLZ_WT20)
30	06:06		06:34 (EAM_WT03)	06:54			07:43		08:18 (KLZ_WT01)	07:33			08:25		09:20 (SAM_WT06)	08:50		09:31 (SAM_WT06)
	21:37	4	06:38 (EAM_WT03)	20:38			19:28	16	08:34 (KLZ_WT01)	17:25			16:43	98	16:10 (KLZ_WT20)	16:46	124	16:11 (KLZ_WT20)
31	06:07		06:36 (EAM_WT03)	06:55						07:35						08:50		09:31 (SAM_WT06)
	21:35	2	06:38 (EAM_WT03)	20:35						17:23						16:47	124	16:12 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		190			170			94			477			1075			3716	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,66			0,59			0,57			0,66			0,63	
Total reduction		0,31			0,30			0,25			0,20			0,17			0,14	
Total, real		58			51			23			96			184			515	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:08 (SAM_WT07)	08:24			07:32		17:40 (KLZ_WT20)	07:23		07:45 (SWB_WT01_RP)	06:20			05:36		06:24 (KLZ_WT01)
	16:48	22	10:30 (SAM_WT07)	17:35			18:25	19	17:59 (KLZ_WT13)	20:17	31	19:30 (KLZ_WT05)	21:06			21:51	79	19:56 (KLZ_WT04)
2	08:50		10:09 (SAM_WT07)	08:22			07:30		17:39 (KLZ_WT20)	07:21		07:43 (SWB_WT01_RP)	06:18			05:36		06:25 (KLZ_WT01)
	16:49	21	10:30 (SAM_WT07)	17:36			18:26	22	18:01 (KLZ_WT13)	20:19	32	19:31 (KLZ_WT05)	21:08			21:52	78	19:57 (KLZ_WT04)
3	08:49		10:10 (SAM_WT07)	08:21			07:28		17:39 (KLZ_WT20)	07:19		19:01 (KLZ_WT05)	06:16			05:35		06:03 (SAM_WT10)
	16:50	20	10:30 (SAM_WT07)	17:38			18:28	24	18:03 (EVE_WT02)	20:20	30	19:31 (KLZ_WT05)	21:09			21:53	79	19:57 (KLZ_WT04)
4	08:49		10:10 (SAM_WT07)	08:19		08:57 (SAM_WT06)	07:26		17:38 (KLZ_WT20)	07:16		19:01 (KLZ_WT05)	06:15		06:39 (SAM_WT09)	05:34		06:02 (SAM_WT10)
	16:51	19	10:29 (SAM_WT07)	17:40	7	09:04 (SAM_WT06)	18:30	27	18:05 (EVE_WT02)	20:22	30	19:31 (KLZ_WT05)	21:11	2	06:41 (SAM_WT09)	21:54	81	19:58 (KLZ_WT04)
5	08:49		10:12 (SAM_WT07)	08:18		08:53 (SAM_WT06)	07:24		17:37 (KLZ_WT20)	07:14		19:01 (KLZ_WT05)	06:13		06:37 (SAM_WT09)	05:33		06:02 (SAM_WT10)
	16:52	18	10:30 (SAM_WT07)	17:42	15	09:08 (SAM_WT06)	18:32	29	18:06 (EVE_WT02)	20:24	30	19:31 (KLZ_WT05)	21:13	3	06:40 (SAM_WT09)	21:55	81	19:59 (KLZ_WT04)
6	08:49		10:12 (SAM_WT07)	08:16		08:51 (SAM_WT06)	07:21		07:44 (SAM_WT08)	07:12		07:34 (SAM_WT02)	06:11		06:35 (SAM_WT09)	05:33		06:01 (SAM_WT10)
	16:54	17	10:29 (SAM_WT07)	17:44	19	09:10 (SAM_WT06)	18:33	33	18:07 (KLZ_WT20)	20:25	31	19:30 (KLZ_WT05)	21:14	4	06:39 (SAM_WT09)	21:56	81	19:59 (KLZ_WT04)
7	08:48		09:18 (SAM_WT04)	08:15		08:49 (SAM_WT06)	07:19		07:42 (SAM_WT08)	07:10		07:32 (SAM_WT02)	06:09		06:34 (SAM_WT09)	05:32		06:01 (SAM_WT10)
	16:55	15	10:28 (SAM_WT07)	17:45	22	09:11 (SAM_WT06)	18:35	35	18:07 (KLZ_WT20)	20:27	32	19:29 (KLZ_WT05)	21:16	4	06:38 (SAM_WT09)	21:56	82	20:00 (KLZ_WT04)
8	08:48		09:17 (SAM_WT04)	08:13		08:48 (SAM_WT06)	07:17		07:40 (SAM_WT08)	07:08		07:30 (SAM_WT02)	06:08			05:32		06:00 (SAM_WT10)
	16:56	15	10:27 (SAM_WT07)	17:47	25	09:13 (SAM_WT06)	18:37	38	18:08 (KLZ_WT06)	20:29	31	19:28 (KLZ_WT05)	21:17			21:57	86	20:00 (KLZ_WT04)
9	08:47		09:17 (SAM_WT04)	08:11		08:47 (SAM_WT06)	07:15		07:37 (SAM_WT08)	07:05		07:28 (SAM_WT02)	06:06			05:31		06:00 (SAM_WT10)
	16:57	12	10:26 (SAM_WT07)	17:49	27	09:14 (SAM_WT06)	18:38	40	18:08 (KLZ_WT06)	20:30	32	19:28 (KLZ_WT05)	21:19			21:58	89	20:00 (KLZ_WT04)
10	08:47		09:16 (SAM_WT04)	08:09		08:46 (SAM_WT06)	07:13		07:35 (SAM_WT08)	07:03		19:03 (KLZ_WT05)	06:04			05:31		06:00 (SAM_WT10)
	16:59	6	09:22 (SAM_WT11)	17:51	29	09:15 (SAM_WT06)	18:40	42	18:09 (KLZ_WT06)	20:32	23	19:26 (KLZ_WT05)	21:21			21:59	89	20:01 (KLZ_WT04)
11	08:46		09:15 (SAM_WT04)	08:08		08:45 (SAM_WT06)	07:10		07:34 (SAM_WT08)	07:01		19:04 (KLZ_WT05)	06:03			05:30		05:59 (SAM_WT10)
	17:00	7	09:22 (SAM_WT04)	17:53	31	09:16 (SAM_WT06)	18:42	44	18:17 (KLZ_WT12)	20:33	20	19:24 (KLZ_WT05)	21:22			22:00	92	20:01 (KLZ_WT04)
12	08:46		09:15 (SAM_WT04)	08:06		08:45 (SAM_WT06)	07:08		07:36 (SAM_WT08)	06:59		19:06 (KLZ_WT05)	06:01			05:30		05:59 (SAM_WT10)
	17:02	9	09:24 (SAM_WT11)	17:54	31	09:16 (SAM_WT06)	18:44	42	18:19 (KLZ_WT12)	20:35	16	19:22 (KLZ_WT05)	21:24			22:00	90	20:01 (KLZ_WT04)
13	08:45		09:14 (SAM_WT04)	08:04		08:44 (SAM_WT06)	07:06		17:40 (KLZ_WT20)	06:57		07:19 (SAM_WT03)	05:59			05:30		05:59 (SAM_WT10)
	17:03	10	09:24 (SAM_WT04)	17:56	33	09:17 (SAM_WT06)	18:45	37	18:20 (KLZ_WT12)	20:37	14	19:20 (KLZ_WT05)	21:25			22:01	91	20:02 (KLZ_WT04)
14	08:44		09:13 (SAM_WT04)	08:02		08:44 (SAM_WT06)	07:04		17:42 (KLZ_WT20)	06:55		07:17 (SAM_WT03)	05:58		06:29 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:05	12	09:25 (SAM_WT11)	17:58	33	09:17 (SAM_WT06)	18:47	37	18:22 (KLZ_WT12)	20:38	5	07:22 (SAM_WT03)	21:27	19	19:30 (KLZ_WT04)	22:02	91	20:02 (KLZ_WT04)
15	08:44		09:12 (SAM_WT04)	08:00		08:43 (SAM_WT06)	07:02		17:45 (KLZ_WT20)	06:52		07:15 (SAM_WT03)	05:56		06:27 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:06	14	09:26 (SAM_WT11)	18:00	34	09:17 (SAM_WT06)	18:49	35	18:24 (KLZ_WT12)	20:40	7	07:22 (SAM_WT03)	21:28	33	19:35 (KLZ_WT04)	22:02	94	20:03 (KLZ_WT04)
16	08:43		09:11 (SAM_WT04)	07:58		08:43 (SAM_WT06)	06:59		17:53 (KLZ_WT06)	06:50		07:13 (SAM_WT03)	05:55		06:26 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:08	15	09:26 (SAM_WT11)	18:02	34	09:17 (SAM_WT06)	18:50	28	18:26 (KLZ_WT12)	20:42	8	07:21 (SAM_WT03)	21:30	40	19:38 (KLZ_WT04)	22:03	95	20:03 (KLZ_WT04)
17	08:42		09:10 (SAM_WT04)	07:56		08:43 (SAM_WT06)	06:57		17:55 (KLZ_WT06)	06:48		07:12 (SAM_WT03)	05:53		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:09	17	09:27 (SAM_WT11)	18:03	34	09:17 (SAM_WT06)	18:52	21	18:25 (KLZ_WT12)	20:43	8	07:20 (SAM_WT03)	21:31	47	19:39 (KLZ_WT04)	22:03	94	20:03 (KLZ_WT04)
18	08:41		09:09 (SAM_WT04)	07:55		08:43 (SAM_WT06)	06:55		18:13 (KLZ_WT12)	06:46		07:13 (SAM_WT03)	05:52		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:11	18	09:27 (SAM_WT11)	18:05	34	09:17 (SAM_WT06)	18:54	11	18:24 (KLZ_WT12)	20:45	5	07:18 (SAM_WT03)	21:33	52	19:41 (KLZ_WT04)	22:03	95	20:04 (KLZ_WT04)
19	08:40		09:08 (SAM_WT11)	07:53		08:44 (SAM_WT06)	06:53		18:15 (KLZ_WT12)	06:44			05:51		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:12	19	09:27 (SAM_WT11)	18:07	32	09:16 (SAM_WT06)	18:55	9	18:31 (EVE_WT01)	20:47			21:34	56	19:43 (KLZ_WT04)	22:04	96	20:04 (KLZ_WT04)
20	08:39		09:07 (SAM_WT11)	07:51		08:44 (SAM_WT06)	06:50		18:29 (EVE_WT01)	06:42			05:49		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:14	21	09:28 (SAM_WT11)	18:09	32	09:16 (SAM_WT06)	18:57	3	18:32 (EVE_WT01)	20:48			21:35	60	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
21	08:38		09:05 (SAM_WT11)	07:49		08:45 (SAM_WT06)	06:48		18:27 (EVE_WT01)	06:40			05:48		06:22 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:16	22	09:27 (SAM_WT11)	18:11	30	09:15 (SAM_WT06)	18:59	6	18:33 (EVE_WT01)	20:50			21:37	63	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
22	08:37		09:05 (SAM_WT11)	07:47		08:45 (SAM_WT06)	06:46		18:27 (EVE_WT01)	06:38		07:01 (SAM_WT01)	05:47		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:17	23	09:28 (SAM_WT11)	18:12	29	09:14 (SAM_WT06)	19:00	8	18:35 (EVE_WT01)	20:52	2	07:03 (SAM_WT01)	21:38	66	19:47 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
23	08:36		09:06 (SAM_WT11)	07:45		08:46 (SAM_WT06)	06:43		18:28 (EVE_WT01)	06:36		06:59 (SAM_WT01)	05:45		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:19	22	09:28 (SAM_WT11)	18:14	27	09:13 (SAM_WT06)	19:02	9	18:37 (EVE_WT01)	20:53	2	07:01 (SAM_WT01)	21:40	68	19:48 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
24	08:35		09:06 (SAM_WT11)	07:43		08:48 (SAM_WT06)	06:41		18:28 (EVE_WT01)	06:34		06:57 (SAM_WT01)	05:44		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:21	21	09:27 (SAM_WT11)	18:16	23	09:11 (SAM_WT06)	19:04	10	18:38 (EVE_WT01)	20:55	2	06:59 (SAM_WT01)	21:41	71	19:49 (KLZ_WT04)	22:05	96	20:05 (KLZ_WT04)
25	08:34		09:07 (SAM_WT11)	07:40		08:49 (SAM_WT06)	06:39		18:30 (EVE_WT01)	06:32			05:43		06:22 (KLZ_WT01)	05:31		06:00 (SAM_WT10)
	17:22	20	09:27 (SAM_WT11)	18:18	25	17:52 (KLZ_WT20)	19:05	6	18:36 (EVE_WT01)	20:56			21:42	72	19:50 (KLZ_WT04)	22:05	95	20:05 (KLZ_WT04)
26	08:32		09:09 (SAM_WT11)	07:38		08:51 (SAM_WT06)	06:37		18:15 (KLZ_WT05)	06:30			05:42		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:24	18	09:27 (SAM_WT11)	18:19	24	17:54 (KLZ_WT13)	19:07	7	18:22 (KLZ_WT05)	20:58			21:43	74	19:51 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
27	08:31		09:09 (SAM_WT11)	07:36		08:55 (SAM_WT06)	06:34		18:11 (KLZ_WT05)	06:28			05:41		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:26	16	09:25 (SAM_WT11)	18:21	21	17:56 (KLZ_WT13)	19:09	14	18:25 (KLZ_WT05)	21:00			21:45	75	19:52 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
28	08:30		09:11 (SAM_WT11)	07:34		17:41 (KLZ_WT20)	06:32		18:08 (KLZ_WT05)	06:26			05:40		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:27	14	09:25 (SAM_WT11)	18:23	16	17:57 (KLZ_WT13)	19:10	18	18:26 (KLZ_WT05)	21:01			21:46	75	19:52 (KLZ_WT04)	22:05	93	20:06 (KLZ_WT04)
29	08:28		09:13 (SAM_WT11)				07:30		19:06 (KLZ_WT05)	06:24			05:39		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:29	9	09:22 (SAM_WT11)				20:12	22	19:28 (KLZ_WT05)	21:03			21:47	77	19:53 (KLZ_WT04)	22:05	91	20:05 (KLZ_WT04)
30	08:27						07:28		19:05 (KLZ_WT05)	06:22			05:38		06:23 (KLZ_WT01)	05:33		06:03 (SAM_WT10)
	17:31						20:14	25	19:30 (KLZ_WT05)	21:05			21:48	78	19:55 (KLZ_WT04)	22:04	90	20:06 (KLZ_WT04)
31	08:25						07:25		07:48 (SWB_WT01_RP)				05:37		06:24 (KLZ_WT01)			
	17:33						20:15	29	19:31 (KLZ_WT05)				21:49	77	19:55 (KLZ_WT04)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		472			667			730			391			1116			2704	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,55			0,56			0,64			0,63			0,59			0,59	
Total reduction		0,13			0,16			0,24			0,28			0,26			0,25	
Total, real		63			109			173			111			294			689	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (SAM_WT10)	06:09			06:57		19:04 (KLZ_WT05)	07:44		18:19 (KLZ_WT20)	07:36		08:16 (SAM_WT06)	08:26		08:57 (SAM_WT04)
	22:04	92 20:06 (KLZ_WT04)	21:34			20:33	20	19:24 (KLZ_WT05)	19:25	35	18:58 (KLZ_WT12)	17:21	28	08:44 (SAM_WT06)	16:42	7	09:04 (SAM_WT04)
2	05:34	06:04 (SAM_WT10)	06:10			06:59		19:01 (KLZ_WT05)	07:46		08:14 (SAM_WT08)	07:38		08:17 (SAM_WT06)	08:27		08:59 (SAM_WT04)
	22:04	90 20:05 (KLZ_WT04)	21:32			20:31	23	19:24 (KLZ_WT05)	19:23	43	18:56 (KLZ_WT12)	17:19	27	08:44 (SAM_WT06)	16:41	6	09:05 (SAM_WT04)
3	05:35	06:05 (SAM_WT10)	06:12			07:00		07:26 (SAM_WT02)	07:48		08:12 (SAM_WT08)	07:40		08:17 (SAM_WT06)	08:29		09:00 (SAM_WT04)
	22:04	90 20:06 (KLZ_WT04)	21:30			20:29	32	19:26 (KLZ_WT05)	19:21	43	18:54 (KLZ_WT12)	17:17	25	08:42 (SAM_WT06)	16:41	12	10:09 (SAM_WT07)
4	05:36	06:06 (SAM_WT10)	06:13			07:02		07:27 (SAM_WT02)	07:49		08:14 (SAM_WT08)	07:42		08:19 (SAM_WT06)	08:30		09:02 (SAM_WT04)
	22:03	88 20:06 (KLZ_WT04)	21:29			20:27	31	19:25 (KLZ_WT05)	19:19	41	18:46 (KLZ_WT06)	17:16	22	08:41 (SAM_WT06)	16:40	14	10:12 (SAM_WT07)
5	05:37	06:06 (SAM_WT10)	06:15			07:03		07:29 (SAM_WT02)	07:51		08:16 (SAM_WT08)	07:43		08:21 (SAM_WT06)	08:31		09:03 (SAM_WT04)
	22:03	83 20:05 (KLZ_WT04)	21:27			20:24	32	19:26 (KLZ_WT05)	19:16	39	18:45 (KLZ_WT06)	17:14	18	08:39 (SAM_WT06)	16:40	15	10:13 (SAM_WT07)
6	05:37	06:07 (SAM_WT10)	06:16		06:44 (SAM_WT09)	07:05		07:30 (SAM_WT02)	07:52		08:17 (SAM_WT08)	07:45		08:23 (SAM_WT06)	08:33		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:25	4	06:48 (SAM_WT09)	20:22	31	19:26 (KLZ_WT05)	19:14	36	18:43 (KLZ_WT06)	17:12	14	08:37 (SAM_WT06)	16:39	16	10:15 (SAM_WT07)
7	05:38	06:08 (SAM_WT10)	06:18		06:46 (SAM_WT09)	07:06		18:57 (KLZ_WT05)	07:54		08:19 (SAM_WT08)	07:47		08:27 (SAM_WT06)	08:34		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:24	3	06:49 (SAM_WT09)	20:20	29	19:26 (KLZ_WT05)	19:12	34	18:43 (KLZ_WT20)	17:11	6	08:33 (SAM_WT06)	16:39	18	10:17 (SAM_WT07)
8	05:39	06:09 (SAM_WT10)	06:19		06:47 (SAM_WT09)	07:08		18:55 (KLZ_WT05)	07:56		08:21 (SAM_WT08)	07:49			08:35		09:59 (SAM_WT07)
	22:01	81 20:05 (KLZ_WT04)	21:22	3	06:50 (SAM_WT09)	20:18	30	19:25 (KLZ_WT05)	19:10	32	18:43 (KLZ_WT20)	17:09			16:39	18	10:17 (SAM_WT07)
9	05:40	06:10 (SAM_WT10)	06:21		06:48 (SAM_WT09)	07:10		18:56 (KLZ_WT05)	07:57		18:12 (KLZ_WT20)	07:50			08:36		09:58 (SAM_WT07)
	22:00	80 20:05 (KLZ_WT04)	21:20	1	06:49 (SAM_WT09)	20:15	29	19:25 (KLZ_WT05)	19:08	28	18:40 (EVE_WT02)	17:07			16:38	20	10:18 (SAM_WT07)
10	05:41	06:11 (SAM_WT10)	06:23			07:11		07:36 (SWB_WT01_RP)	07:59		18:13 (KLZ_WT20)	07:52			08:37		09:58 (SAM_WT07)
	22:00	79 20:05 (KLZ_WT04)	21:18			20:13	32	19:24 (KLZ_WT05)	19:05	25	18:38 (EVE_WT02)	17:06			16:38	21	10:19 (SAM_WT07)
11	05:42	06:32 (KLZ_WT01)	06:24			07:13		07:38 (SWB_WT01_RP)	08:01		18:13 (KLZ_WT20)	07:54			08:38		09:58 (SAM_WT07)
	21:59	78 20:04 (KLZ_WT04)	21:16			20:11	31	19:23 (KLZ_WT05)	19:03	23	18:36 (KLZ_WT13)	17:04			16:38	22	10:20 (SAM_WT07)
12	05:43	06:32 (KLZ_WT01)	06:26			07:14		07:39 (SWB_WT01_RP)	08:02		18:13 (KLZ_WT20)	07:56			08:39		09:58 (SAM_WT07)
	21:58	78 20:04 (KLZ_WT04)	21:14			20:09	29	19:22 (KLZ_WT05)	19:01	20	18:33 (KLZ_WT13)	17:03			16:38	22	10:20 (SAM_WT07)
13	05:44	06:32 (KLZ_WT01)	06:27			07:16		07:41 (SWB_WT01_RP)	08:04		18:14 (KLZ_WT20)	07:57		08:45 (SAM_WT11)	08:40		09:58 (SAM_WT07)
	21:57	78 20:04 (KLZ_WT04)	21:12			20:06	26	19:21 (KLZ_WT05)	18:59	17	18:31 (KLZ_WT13)	17:01	9	08:54 (SAM_WT11)	16:38	23	10:21 (SAM_WT07)
14	05:45	06:32 (KLZ_WT01)	06:29			07:17		18:56 (KLZ_WT05)	08:06		18:15 (KLZ_WT20)	07:59		08:43 (SAM_WT11)	08:41		09:59 (SAM_WT07)
	21:56	77 20:03 (KLZ_WT04)	21:11			20:04	23	19:19 (KLZ_WT05)	18:57	14	18:29 (KLZ_WT13)	17:00	14	08:57 (SAM_WT11)	16:38	23	10:22 (SAM_WT07)
15	05:46	06:32 (KLZ_WT01)	06:30			07:19		18:58 (KLZ_WT05)	08:07		09:25 (SAM_WT06)	08:01		08:42 (SAM_WT11)	08:42		09:59 (SAM_WT07)
	21:56	76 20:02 (KLZ_WT04)	21:09			20:02	19	19:17 (KLZ_WT05)	18:55	23	18:27 (KLZ_WT13)	16:58	16	08:58 (SAM_WT11)	16:38	24	10:23 (SAM_WT07)
16	05:47	06:32 (KLZ_WT01)	06:32			07:21		18:59 (KLZ_WT05)	08:09		09:22 (SAM_WT06)	08:02		08:42 (SAM_WT11)	08:43		09:59 (SAM_WT07)
	21:55	75 20:02 (KLZ_WT04)	21:07			19:59	15	19:14 (KLZ_WT05)	18:52	23	18:24 (KLZ_WT20)	16:57	18	09:00 (SAM_WT11)	16:38	25	10:24 (SAM_WT07)
17	05:49	06:31 (KLZ_WT01)	06:33			07:22		19:02 (KLZ_WT05)	08:11		09:20 (SAM_WT06)	08:04		08:41 (SAM_WT11)	08:44		10:00 (SAM_WT07)
	21:54	75 20:01 (KLZ_WT04)	21:05			19:57	9	19:11 (KLZ_WT05)	18:50	23	18:22 (KLZ_WT20)	16:56	20	09:01 (SAM_WT11)	16:38	24	10:24 (SAM_WT07)
18	05:50	06:31 (KLZ_WT01)	06:35			07:24		19:18 (EVE_WT01)	08:12		09:18 (SAM_WT06)	08:06		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:52	73 20:00 (KLZ_WT04)	21:03			19:55	5	19:23 (EVE_WT01)	18:48	25	09:43 (SAM_WT06)	16:55	21	09:01 (SAM_WT11)	16:39	24	10:24 (SAM_WT07)
19	05:51	06:31 (KLZ_WT01)	06:37		07:03 (SAM_WT01)	07:25		19:16 (EVE_WT01)	08:14		09:17 (SAM_WT06)	08:07		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:51	71 19:59 (KLZ_WT04)	21:01	2	07:05 (SAM_WT01)	19:53	10	19:26 (EVE_WT01)	18:46	28	09:45 (SAM_WT06)	16:53	22	09:02 (SAM_WT11)	16:39	25	10:25 (SAM_WT07)
20	05:52	06:31 (KLZ_WT01)	06:38		07:05 (SAM_WT01)	07:27		19:15 (EVE_WT01)	08:16		09:16 (SAM_WT06)	08:09		08:40 (SAM_WT11)	08:46		10:01 (SAM_WT07)
	21:50	70 19:58 (KLZ_WT04)	20:59	2	07:07 (SAM_WT01)	19:50	9	19:24 (EVE_WT01)	18:44	30	09:46 (SAM_WT06)	16:52	23	09:03 (SAM_WT11)	16:39	25	10:26 (SAM_WT07)
21	05:54	06:32 (KLZ_WT01)	06:40		07:06 (SAM_WT01)	07:28		19:13 (EVE_WT01)	08:17		09:15 (SAM_WT06)	08:11		08:41 (SAM_WT11)	08:47		10:01 (SAM_WT07)
	21:49	68 19:58 (KLZ_WT04)	20:57	1	07:07 (SAM_WT01)	19:48	8	19:21 (EVE_WT01)	18:42	31	09:46 (SAM_WT06)	16:51	22	09:03 (SAM_WT11)	16:40	25	10:26 (SAM_WT07)
22	05:55	06:32 (KLZ_WT01)	06:41			07:30		19:13 (EVE_WT01)	08:19		09:14 (SAM_WT06)	08:12		08:43 (SAM_WT11)	08:47		10:02 (SAM_WT07)
	21:48	65 19:57 (KLZ_WT04)	20:55			19:46	7	19:20 (EVE_WT01)	18:40	32	09:46 (SAM_WT06)	16:50	21	09:04 (SAM_WT11)	16:40	25	10:27 (SAM_WT07)
23	05:56	06:32 (KLZ_WT01)	06:43			07:32		19:12 (EVE_WT01)	08:21		09:14 (SAM_WT06)	08:14		08:44 (SAM_WT11)	08:48		10:02 (SAM_WT07)
	21:47	62 19:55 (KLZ_WT04)	20:52			19:43	5	19:17 (EVE_WT01)	18:38	33	09:47 (SAM_WT06)	16:49	19	09:03 (SAM_WT11)	16:41	25	10:27 (SAM_WT07)
24	05:58	06:33 (KLZ_WT01)	06:44			07:33		18:59 (KLZ_WT12)	08:23		09:14 (SAM_WT06)	08:16		08:46 (SAM_WT04)	08:48		10:02 (SAM_WT07)
	21:45	58 19:54 (KLZ_WT04)	20:50			19:41	7	19:15 (EVE_WT01)	18:36	33	09:47 (SAM_WT06)	16:48	18	09:04 (SAM_WT11)	16:41	25	10:27 (SAM_WT07)
25	05:59	06:34 (KLZ_WT01)	06:46		07:16 (SAM_WT03)	07:35		18:56 (KLZ_WT12)	07:24		08:14 (SAM_WT06)	08:17		08:48 (SAM_WT04)	08:48		10:04 (SAM_WT07)
	21:44	55 19:53 (KLZ_WT04)	20:48	5	07:21 (SAM_WT03)	19:39	10	19:06 (KLZ_WT12)	17:34	33	08:47 (SAM_WT06)	16:47	17	09:05 (SAM_WT11)	16:42	24	10:28 (SAM_WT07)
26	06:00	06:34 (KLZ_WT01)	06:48		07:14 (SAM_WT03)	07:36		18:39 (KLZ_WT06)	07:26		08:14 (SAM_WT06)	08:19		08:49 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:43	51 19:51 (KLZ_WT04)	20:46	9	07:23 (SAM_WT03)	19:37	18	19:07 (KLZ_WT12)	17:32	33	08:47 (SAM_WT06)	16:46	15	09:04 (SAM_WT11)	16:43	24	10:28 (SAM_WT07)
27	06:02	06:35 (KLZ_WT01)	06:49		07:15 (SAM_WT03)	07:38		18:36 (KLZ_WT06)	07:28		08:13 (SAM_WT06)	08:20		08:51 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:41	45 19:49 (KLZ_WT04)	20:44	8	07:23 (SAM_WT03)	19:34	26	19:08 (KLZ_WT12)	17:30	33	08:46 (SAM_WT06)	16:45	14	09:05 (SAM_WT11)	16:43	25	10:29 (SAM_WT07)
28	06:03	06:37 (KLZ_WT01)	06:51		07:17 (SAM_WT03)	07:40		18:27 (KLZ_WT20)	07:30		08:13 (SAM_WT06)	08:22		08:53 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:40	37 19:47 (KLZ_WT04)	20:42	6	07:23 (SAM_WT03)	19:32	33	19:05 (KLZ_WT12)	17:28	33	08:46 (SAM_WT06)	16:44	12	09:05 (SAM_WT11)	16:44	24	10:29 (SAM_WT07)
29	06:05	06:38 (KLZ_WT01)	06:52		07:18 (SAM_WT03)	07:41		18:23 (KLZ_WT20)	07:31		08:14 (SAM_WT06)	08:23		08:54 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:38	28 19:44 (KLZ_WT04)	20:40	5	07:23 (SAM_WT03)	19:30	36	19:03 (KLZ_WT12)	17:26	32	08:46 (SAM_WT06)	16:43	11	09:05 (SAM_WT11)	16:45	24	10:29 (SAM_WT07)
30	06:06	19:28 (KLZ_WT04)	06:54		07:20 (SAM_WT03)	07:43		18:20 (KLZ_WT20)	07:33		08:14 (SAM_WT06)	08:25		08:56 (SAM_WT04)	08:50		10:06 (SAM_WT07)
	21:37	10 19:38 (KLZ_WT04)	20:38	14	19:21 (KLZ_WT05)	19:28	37	19:00 (KLZ_WT12)	17:25	32	08:46 (SAM_WT06)	16:43	9	09:05 (SAM_WT11)	16:46	23	10:29 (SAM_WT07)
31	06:07		06:55		19:05 (KLZ_WT05)				07:35		08:15 (SAM_WT06)				08:50		10:07 (SAM_WT07)
	21:35		20:35	17	19:22 (KLZ_WT05)				17:23	30	08:45 (SAM_WT06)				16:47	22	10:29 (SAM_WT07)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		2077		80			652			937			441			650	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97		0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59		0,64			0,63			0,60			0,54			0,57	
Total reduction		0,26		0,29			0,27			0,21			0,14			0,13	
Total, real		533		23			174			198			62			82	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	17	09:43 (SAM_WT05)	17:35	29	09:29 (SAM_WT07)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	17	09:43 (SAM_WT05)	17:36	29	09:29 (SAM_WT07)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	17	09:44 (SAM_WT05)	17:38	30	09:29 (SAM_WT07)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	16	09:43 (SAM_WT05)	17:40	30	09:30 (SAM_WT07)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	16	09:44 (SAM_WT05)	17:42	32	09:30 (SAM_WT07)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	14	09:43 (SAM_WT05)	17:44	35	09:30 (SAM_WT07)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	13	09:43 (SAM_WT05)	17:45	38	09:30 (SAM_WT07)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	12	09:43 (SAM_WT05)	17:47	39	09:30 (SAM_WT07)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	11	09:43 (SAM_WT05)	17:49	41	09:30 (SAM_WT07)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	9	09:42 (SAM_WT05)	17:51	41	09:29 (SAM_WT07)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	5	09:40 (SAM_WT05)	17:53	41	09:28 (SAM_WT07)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46			08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02			17:54	40	09:27 (SAM_WT07)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45			08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03			17:56	38	09:25 (SAM_WT07)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44			08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05			17:58	35	09:24 (SAM_WT07)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44			08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06			18:00	30	09:21 (SAM_WT07)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43			07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08			18:02	24	09:17 (SAM_WT07)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42			07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09			18:03	21	08:41 (SAM_WT11)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41			07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11			18:05	20	08:40 (SAM_WT11)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40			07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12			18:07	18	08:39 (SAM_WT11)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39			07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14			18:09	16	08:38 (SAM_WT11)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38			07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16			18:11	12	08:36 (SAM_WT11)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37			07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17			18:12	6	08:33 (SAM_WT11)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	7	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	14	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	18	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	20	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	22	09:24 (SAM_WT07)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	23	09:25 (SAM_WT07)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	25	09:26 (SAM_WT07)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	26	09:27 (SAM_WT07)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	28	09:28 (SAM_WT07)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		330			645			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,55			0,60			0,60			0,57			0,71	
Total reduction		0,13			0,16			0,22			0,27			0,25			0,31	
Total, real		43			104			171			276			39			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	6	06:10 (KLZ_WT01)	21:34	1	06:38 (SAM_WT09)	20:33	53	20:03 (EVE_WT01)	19:25	22	18:58 (KLZ_WT13)	17:21	41	08:59 (SAM_WT07)	16:42	5	09:22 (SAM_WT05)
2	05:34		06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	5	06:09 (KLZ_WT01)	21:32			20:31	54	20:03 (EVE_WT01)	19:23	15	08:32 (SAM_WT06)	17:19	39	08:59 (SAM_WT07)	16:41	8	09:25 (SAM_WT05)
3	05:35		06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	4	06:09 (KLZ_WT01)	21:30			20:29	57	20:03 (EVE_WT01)	19:21	9	08:28 (SAM_WT06)	17:17	39	08:59 (SAM_WT07)	16:41	10	09:26 (SAM_WT05)
4	05:36		06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	3	06:09 (KLZ_WT01)	21:29	4	20:11 (KLZ_WT06)	20:27	54	20:00 (EVE_WT01)	19:19			17:16	37	08:59 (SAM_WT07)	16:40	12	09:28 (SAM_WT05)
5	05:37		06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	1	06:07 (KLZ_WT01)	21:27	11	20:15 (KLZ_WT06)	20:24	51	19:58 (EVE_WT01)	19:16			17:14	36	09:00 (SAM_WT07)	16:40	13	09:28 (SAM_WT05)
6	05:37			06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02			21:25	15	20:16 (KLZ_WT06)	20:22	50	19:55 (EVE_WT01)	19:14			17:12	32	09:00 (SAM_WT07)	16:39	14	09:29 (SAM_WT05)
7	05:38			06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02			21:24	18	20:18 (KLZ_WT06)	20:20	49	19:54 (EVE_WT01)	19:12			17:11	30	09:00 (SAM_WT07)	16:39	15	09:31 (SAM_WT05)
8	05:39			06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01			21:22	20	20:19 (KLZ_WT06)	20:18	47	19:51 (EVE_WT01)	19:10			17:09	30	09:00 (SAM_WT07)	16:39	16	09:31 (SAM_WT05)
9	05:40			06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00			21:20	22	20:19 (KLZ_WT06)	20:15	44	19:49 (KLZ_WT12)	19:08			17:07	29	09:00 (SAM_WT07)	16:38	17	09:32 (SAM_WT05)
10	05:41			06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00			21:18	23	20:20 (KLZ_WT06)	20:13	42	19:46 (KLZ_WT12)	19:05			17:06	29	09:00 (SAM_WT07)	16:38	17	09:32 (SAM_WT05)
11	05:42			06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59			21:16	25	20:20 (KLZ_WT06)	20:11	39	19:43 (KLZ_WT20)	19:03			17:04	28	09:00 (SAM_WT07)	16:38	17	09:33 (SAM_WT05)
12	05:43			06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58			21:14	26	20:21 (KLZ_WT06)	20:09	38	19:42 (KLZ_WT20)	19:01			17:03	26	08:58 (SAM_WT07)	16:38	17	09:33 (SAM_WT05)
13	05:44			06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57			21:12	26	20:20 (KLZ_WT06)	20:06	35	19:40 (KLZ_WT20)	18:59			17:01	25	08:58 (SAM_WT07)	16:38	18	09:34 (SAM_WT05)
14	05:45			06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56			21:11	27	20:21 (KLZ_WT06)	20:04	33	19:37 (KLZ_WT20)	18:57			17:00	23	08:57 (SAM_WT07)	16:38	17	09:34 (SAM_WT05)
15	05:46			06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56			21:09	26	20:20 (KLZ_WT06)	20:02	38	19:35 (KLZ_WT20)	18:55			16:58	22	08:57 (SAM_WT07)	16:38	18	09:35 (SAM_WT05)
16	05:48			06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55			21:07	31	20:20 (KLZ_WT06)	19:59	42	19:33 (KLZ_WT20)	18:52			16:57	21	16:26 (KLZ_WT15)	16:38	18	09:36 (SAM_WT05)
17	05:49			06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54			21:05	31	20:19 (KLZ_WT06)	19:57	43	19:31 (KLZ_WT20)	18:50			16:56	18	16:25 (KLZ_WT15)	16:38	18	09:36 (SAM_WT05)
18	05:50			06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52			21:03	30	20:19 (KLZ_WT06)	19:55	42	19:28 (KLZ_WT20)	18:48			16:55	14	16:23 (KLZ_WT15)	16:39	18	09:36 (SAM_WT05)
19	05:51			06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14			08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51			21:01	27	20:18 (KLZ_WT06)	19:53	47	19:26 (KLZ_WT20)	18:46			16:53	7	16:22 (KLZ_WT15)	16:39	18	09:37 (SAM_WT05)
20	05:52			06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09			08:46		09:20 (SAM_WT05)
	21:50			20:59	24	20:18 (KLZ_WT06)	19:50	46	19:24 (KLZ_WT20)	18:44	8	09:05 (SAM_WT11)	16:52			16:39	18	09:38 (SAM_WT05)
21	05:54			06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11			08:47		09:20 (SAM_WT05)
	21:49			20:57	21	20:16 (KLZ_WT06)	19:48	34	08:41 (SAM_WT06)	18:42	13	09:07 (SAM_WT11)	16:51			16:40	18	09:38 (SAM_WT05)
22	05:55			06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12			08:47		09:21 (SAM_WT05)
	21:48			20:55	18	20:14 (KLZ_WT06)	19:46	35	08:42 (SAM_WT06)	18:40	17	09:09 (SAM_WT11)	16:50			16:40	18	09:39 (SAM_WT05)
23	05:56			06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14			08:48		09:21 (SAM_WT05)
	21:47			20:52	15	20:12 (KLZ_WT06)	19:44	39	19:08 (KLZ_WT13)	18:38	19	09:10 (SAM_WT11)	16:49			16:41	18	09:39 (SAM_WT05)
24	05:58			06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16			08:48		09:21 (SAM_WT05)
	21:45			20:50	10	20:10 (KLZ_WT06)	19:41	40	19:10 (KLZ_WT13)	18:36	20	09:11 (SAM_WT11)	16:48			16:41	18	09:39 (SAM_WT05)
25	05:59			06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17			08:48		09:22 (SAM_WT05)
	21:44			20:48	5	19:31 (KLZ_WT20)	19:39	43	19:11 (KLZ_WT13)	17:34	20	08:11 (SAM_WT11)	16:47			16:42	18	09:40 (SAM_WT05)
26	06:00			06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19			08:49		09:22 (SAM_WT05)
	21:43			20:46	17	19:37 (KLZ_WT20)	19:37	42	19:10 (KLZ_WT13)	17:32	26	08:49 (SAM_WT07)	16:46			16:43	18	09:40 (SAM_WT05)
27	06:02			06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20			08:49		09:23 (SAM_WT05)
	21:41			20:44	22	19:39 (KLZ_WT20)	19:34	40	19:08 (KLZ_WT13)	17:30	31	08:51 (SAM_WT07)	16:45			16:43	18	09:41 (SAM_WT05)
28	06:03			06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22			08:49		09:23 (SAM_WT05)
	21:40			20:42	25	19:42 (KLZ_WT20)	19:32	36	19:05 (KLZ_WT13)	17:28	36	08:54 (SAM_WT07)	16:44			16:44	18	09:41 (SAM_WT05)
29	06:05			06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23			08:49		09:23 (SAM_WT05)
	21:38			20:40	33	19:56 (KLZ_WT12)	19:30	33	19:03 (KLZ_WT13)	17:26	39	08:55 (SAM_WT07)	16:43			16:45	18	09:41 (SAM_WT05)
30	06:06			06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25			08:50		09:24 (SAM_WT05)
	21:37			20:38	42	19:59 (KLZ_WT12)	19:28	28	19:00 (KLZ_WT13)	17:25	41	08:57 (SAM_WT07)	16:43			16:46	18	09:42 (SAM_WT05)
31	06:08		06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	1	06:37 (SAM_WT09)	20:35	49	20:01 (EVE_WT01)				17:23	41	08:58 (SAM_WT07)				16:47	17	09:42 (SAM_WT05)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		20			644			1274			357			526			501	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,58			0,61			0,56			0,55			0,53	
Total reduction		0,31			0,27			0,26			0,20			0,14			0,12	
Total, real		6			171			326			70			75			58	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

January			February			March			April			May			June		
1	08:50	11:31 (KLZ_WT19)	08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		20:36 (KLZ_WT13)	05:36		06:27 (SAM_WT06)
	16:48	48 12:19 (KLZ_WT19)	17:35	37	17:05 (KLZ_WT16)	18:25			20:17	20	08:07 (SAM_WT11)	21:06	2	20:38 (KLZ_WT13)	21:50	28	21:13 (EVE_WT01)
2	08:49	11:31 (KLZ_WT19)	08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		20:35 (KLZ_WT13)	05:36		06:28 (SAM_WT06)
	16:49	48 12:19 (KLZ_WT19)	17:36	37	17:07 (KLZ_WT16)	18:26			20:19	17	08:05 (SAM_WT11)	21:08	5	20:40 (KLZ_WT13)	21:52	26	21:13 (EVE_WT01)
3	08:49	11:31 (KLZ_WT19)	08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		20:34 (KLZ_WT13)	05:35		06:28 (SAM_WT06)
	16:50	48 12:19 (KLZ_WT19)	17:38	35	17:07 (KLZ_WT16)	18:28			20:20	17	08:04 (SAM_WT11)	21:09	7	20:41 (KLZ_WT13)	21:53	20	06:48 (SAM_WT06)
4	08:49	11:32 (KLZ_WT19)	08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		20:34 (KLZ_WT13)	05:34		06:29 (SAM_WT06)
	16:51	47 12:19 (KLZ_WT19)	17:40	33	09:56 (CBR_WT01)	18:30			20:22	21	08:06 (SAM_WT07)	21:11	9	20:43 (KLZ_WT13)	21:54	18	06:47 (SAM_WT06)
5	08:49	11:34 (KLZ_WT19)	08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:52	45 12:19 (KLZ_WT19)	17:42	32	09:55 (CBR_WT01)	18:32			20:24	24	08:07 (SAM_WT07)	21:13	10	20:44 (KLZ_WT13)	21:55	17	06:47 (SAM_WT06)
6	08:49	11:34 (KLZ_WT19)	08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:54	45 12:19 (KLZ_WT19)	17:44	30	09:54 (CBR_WT01)	18:33			20:25	27	08:07 (SAM_WT07)	21:14	11	20:45 (KLZ_WT13)	21:56	16	06:46 (SAM_WT06)
7	08:48	11:35 (KLZ_WT19)	08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:55	44 12:19 (KLZ_WT19)	17:45	28	09:53 (CBR_WT01)	18:35			20:27	29	08:08 (SAM_WT07)	21:16	13	20:47 (KLZ_WT13)	21:56	16	06:47 (SAM_WT06)
8	08:48	11:36 (KLZ_WT19)	08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:56	43 12:19 (KLZ_WT19)	17:47	27	09:53 (CBR_WT01)	18:37			20:29	31	08:09 (SAM_WT07)	21:17	14	20:48 (KLZ_WT13)	21:57	15	06:46 (SAM_WT06)
9	08:47	11:37 (KLZ_WT19)	08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58	42 12:19 (KLZ_WT19)	17:49	23	09:51 (CBR_WT01)	18:39			20:30	31	08:09 (SAM_WT07)	21:19	25	20:49 (KLZ_WT13)	21:58	12	06:45 (SAM_WT06)
10	08:47	11:38 (KLZ_WT19)	08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59	41 12:19 (KLZ_WT19)	17:51	20	09:49 (CBR_WT01)	18:40			20:32	32	08:09 (SAM_WT07)	21:21	27	20:48 (KLZ_WT13)	21:59	11	06:45 (SAM_WT06)
11	08:46	09:31 (CBR_WT01)	08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	43 12:18 (KLZ_WT19)	17:53	16	09:47 (CBR_WT01)	18:42			20:33	32	08:09 (SAM_WT07)	21:22	26	20:47 (KLZ_WT13)	22:00	10	06:45 (SAM_WT06)
12	08:46	09:28 (CBR_WT01)	08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	47 12:17 (KLZ_WT19)	17:54	9	09:43 (CBR_WT01)	18:44			20:35	33	08:08 (SAM_WT07)	21:24	26	20:45 (KLZ_WT13)	22:00	9	06:44 (SAM_WT06)
13	08:45	09:27 (CBR_WT01)	08:04			07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	50 12:18 (KLZ_WT19)	17:56			18:45	1	07:29 (SAM_WT04)	20:37	33	08:08 (SAM_WT07)	21:25	21	06:48 (SAM_WT06)	22:01	7	06:43 (SAM_WT06)
14	08:44	09:26 (CBR_WT01)	08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	51 12:17 (KLZ_WT19)	17:58	4	08:30 (SAM_WT05)	18:47	4	07:30 (SAM_WT04)	20:38	33	08:08 (SAM_WT07)	21:27	23	06:48 (SAM_WT06)	22:01	5	06:43 (SAM_WT06)
15	08:44	09:25 (CBR_WT01)	08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	50 12:16 (KLZ_WT19)	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	32	08:07 (SAM_WT07)	21:28	24	06:49 (SAM_WT06)	22:02	3	06:42 (SAM_WT06)
16	08:43	09:24 (CBR_WT01)	07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		
	17:08	51 12:15 (KLZ_WT19)	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	34	08:07 (SAM_WT07)	21:30	25	06:50 (SAM_WT06)	22:03		
17	08:42	09:23 (CBR_WT01)	07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		
	17:09	49 12:13 (KLZ_WT19)	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	34	08:06 (SAM_WT07)	21:31	25	06:49 (SAM_WT06)	22:03		
18	08:41	09:23 (CBR_WT01)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		
	17:11	45 12:11 (KLZ_WT19)	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	34	08:05 (SAM_WT07)	21:33	27	21:03 (EVE_WT01)	22:03		
19	08:40	09:22 (CBR_WT01)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		
	17:12	42 12:08 (KLZ_WT19)	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	36	20:20 (EVE_WT02)	21:34	28	21:04 (EVE_WT01)	22:04		
20	08:39	09:22 (CBR_WT01)	07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		
	17:14	29 09:51 (CBR_WT01)	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	35	20:22 (EVE_WT02)	21:35	31	21:06 (EVE_WT01)	22:04		
21	08:38	09:21 (CBR_WT01)	07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		
	17:16	30 09:51 (CBR_WT01)	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	28	20:23 (EVE_WT02)	21:37	33	21:06 (EVE_WT01)	22:04		
22	08:37	09:21 (CBR_WT01)	07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		
	17:17	31 09:52 (CBR_WT01)	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	27	20:25 (EVE_WT02)	21:38	35	21:07 (EVE_WT01)	22:05		
23	08:36	09:21 (CBR_WT01)	07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		
	17:19	32 09:53 (CBR_WT01)	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	22	20:26 (EVE_WT02)	21:39	36	21:09 (EVE_WT01)	22:05		
24	08:35	09:20 (CBR_WT01)	07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		
	17:21	33 09:53 (CBR_WT01)	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	13	20:28 (EVE_WT02)	21:41	37	21:10 (EVE_WT01)	22:05		
25	08:34	09:20 (CBR_WT01)	07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		20:17 (EVE_WT02)	05:43		06:24 (SAM_WT06)	05:31		
	17:22	34 09:54 (CBR_WT01)	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	12	20:29 (EVE_WT02)	21:42	36	21:11 (EVE_WT01)	22:05		
26	08:32	09:21 (CBR_WT01)	07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		20:18 (EVE_WT02)	05:42		06:24 (SAM_WT06)	05:31		
	17:24	34 09:55 (CBR_WT01)	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	9	20:27 (EVE_WT02)	21:43	36	21:12 (EVE_WT01)	22:05		
27	08:31	09:20 (CBR_WT01)	07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		20:21 (EVE_WT02)	05:41		06:25 (SAM_WT06)	05:32		
	17:26	35 09:55 (CBR_WT01)	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	3	20:24 (EVE_WT02)	21:45	36	21:13 (EVE_WT01)	22:05		
28	08:30	09:21 (CBR_WT01)	07:34			06:32		06:54 (SAM_WT11)	06:26			05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	35 09:56 (CBR_WT01)	18:23			19:10	15	07:09 (SAM_WT11)	21:01			21:46	36	21:14 (EVE_WT01)	22:05	4	06:45 (SAM_WT06)
29	08:28	09:20 (CBR_WT01)				07:30		07:52 (SAM_WT11)	06:24			05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	35 09:55 (CBR_WT01)				20:12	17	08:09 (SAM_WT11)	21:03			21:47	36	21:16 (EVE_WT01)	22:05	6	06:46 (SAM_WT06)
30	08:27	09:21 (CBR_WT01)				07:28		07:50 (SAM_WT11)	06:22			05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	35 09:56 (CBR_WT01)				20:14	19	08:09 (SAM_WT11)	21:05			21:48	35	21:15 (EVE_WT01)	22:04	8	06:48 (SAM_WT06)
31	08:25	09:21 (CBR_WT01)				07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	37 17:03 (KLZ_WT16)				20:15	20	08:08 (SAM_WT11)				21:49	31	21:14 (EVE_WT01)			
Potential sun hours	262		279			367			415			482			495		
Total, worst case	1279		562			201			699			766			231		
Sun reduction	0,25		0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,58		0,55			0,61			0,62			0,65			0,68		
Total reduction	0,14		0,16			0,23			0,28			0,29			0,29		
Total, real	180		90			45			196			222			68		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	10	06:49 (SAM_WT06)	21:34	26	20:56 (KLZ_WT13)	20:33	32	08:08 (SAM_WT07)	19:25			17:21	22	09:20 (CBR_WT01)	16:42	43	12:00 (KLZ_WT19)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		11:21 (KLZ_WT19)
	22:04	11	06:49 (SAM_WT06)	21:32	26	20:58 (KLZ_WT13)	20:31	32	08:07 (SAM_WT07)	19:23			17:19	24	09:21 (CBR_WT01)	16:41	41	12:02 (KLZ_WT19)
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		11:20 (KLZ_WT19)
	22:04	12	06:50 (SAM_WT06)	21:30	27	20:59 (KLZ_WT13)	20:29	31	08:07 (SAM_WT07)	19:21			17:17	27	09:22 (CBR_WT01)	16:41	42	12:02 (KLZ_WT19)
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		11:21 (KLZ_WT19)
	22:03	14	06:52 (SAM_WT06)	21:29	22	20:59 (KLZ_WT13)	20:27	31	08:06 (SAM_WT07)	19:19			17:16	29	09:23 (CBR_WT01)	16:40	43	12:04 (KLZ_WT19)
5	05:37		06:37 (SAM_WT06)	06:15		20:45 (KLZ_WT13)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		11:20 (KLZ_WT19)
	22:03	15	06:52 (SAM_WT06)	21:27	13	20:58 (KLZ_WT13)	20:24	29	08:05 (SAM_WT07)	19:16			17:14	30	09:24 (CBR_WT01)	16:40	44	12:04 (KLZ_WT19)
6	05:37		06:37 (SAM_WT06)	06:17		20:44 (KLZ_WT13)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		11:20 (KLZ_WT19)
	22:02	16	06:53 (SAM_WT06)	21:25	12	20:56 (KLZ_WT13)	20:22	26	08:03 (SAM_WT07)	19:14			17:12	32	09:25 (CBR_WT01)	16:39	45	12:05 (KLZ_WT19)
7	05:38		06:36 (SAM_WT06)	06:18		20:44 (KLZ_WT13)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		11:21 (KLZ_WT19)
	22:02	17	06:53 (SAM_WT06)	21:23	11	20:55 (KLZ_WT13)	20:20	24	08:02 (SAM_WT07)	19:12			17:11	33	09:26 (CBR_WT01)	16:39	46	12:07 (KLZ_WT19)
8	05:39		06:36 (SAM_WT06)	06:20		20:43 (KLZ_WT13)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		11:21 (KLZ_WT19)
	22:01	18	06:54 (SAM_WT06)	21:22	10	20:53 (KLZ_WT13)	20:18	21	08:00 (SAM_WT07)	19:10			17:09	36	16:39 (KLZ_WT16)	16:39	46	12:07 (KLZ_WT19)
9	05:40		06:36 (SAM_WT06)	06:21		20:43 (KLZ_WT13)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		11:21 (KLZ_WT19)
	22:00	19	06:55 (SAM_WT06)	21:20	8	20:51 (KLZ_WT13)	20:15	17	07:58 (SAM_WT07)	19:08			17:07	39	16:38 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
10	05:41		06:36 (SAM_WT06)	06:23		20:44 (KLZ_WT13)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		11:21 (KLZ_WT19)
	22:00	24	21:20 (EVE_WT01)	21:18	6	20:50 (KLZ_WT13)	20:13	18	07:59 (SAM_WT11)	19:05			17:06	38	16:36 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
11	05:42		06:36 (SAM_WT06)	06:24		20:44 (KLZ_WT13)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		11:21 (KLZ_WT19)
	21:59	27	21:21 (EVE_WT01)	21:16	4	20:48 (KLZ_WT13)	20:11	20	08:00 (SAM_WT11)	19:03			17:04	37	16:35 (KLZ_WT16)	16:38	48	12:09 (KLZ_WT19)
12	05:43		06:35 (SAM_WT06)	06:26		20:45 (KLZ_WT13)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		11:21 (KLZ_WT19)
	21:58	30	21:22 (EVE_WT01)	21:14	1	20:46 (KLZ_WT13)	20:09	20	07:59 (SAM_WT11)	19:01			17:03	35	09:27 (CBR_WT01)	16:38	48	12:09 (KLZ_WT19)
13	05:44		06:35 (SAM_WT06)	06:27			07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		11:21 (KLZ_WT19)
	21:57	33	21:23 (EVE_WT01)	21:12			20:06	19	08:00 (SAM_WT11)	18:59			17:01	35	09:27 (CBR_WT01)	16:38	49	12:10 (KLZ_WT19)
14	05:45		06:35 (SAM_WT06)	06:29			07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		11:21 (KLZ_WT19)
	21:56	34	21:24 (EVE_WT01)	21:11			20:04	17	07:59 (SAM_WT11)	18:57	2	08:57 (SAM_WT05)	17:00	35	09:28 (CBR_WT01)	16:38	50	12:11 (KLZ_WT19)
15	05:46		06:35 (SAM_WT06)	06:30			07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		11:22 (KLZ_WT19)
	21:55	36	21:24 (EVE_WT01)	21:09			20:02	15	07:59 (SAM_WT11)	18:55	11	09:02 (SAM_WT05)	16:59	35	09:28 (CBR_WT01)	16:38	50	12:12 (KLZ_WT19)
16	05:48		06:34 (SAM_WT06)	06:32		20:27 (EVE_WT02)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		11:22 (KLZ_WT19)
	21:54	36	21:23 (EVE_WT01)	21:07	5	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	34	09:28 (CBR_WT01)	16:38	50	12:12 (KLZ_WT19)
17	05:49		06:34 (SAM_WT06)	06:33		20:24 (EVE_WT02)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		11:23 (KLZ_WT19)
	21:53	36	21:22 (EVE_WT01)	21:05	10	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	34	09:28 (CBR_WT01)	16:38	50	12:13 (KLZ_WT19)
18	05:50		06:34 (SAM_WT06)	06:35		20:23 (EVE_WT02)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:52	36	21:21 (EVE_WT01)	21:03	12	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39	50	12:13 (KLZ_WT19)
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:51	37	21:20 (EVE_WT01)	21:01	16	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39	51	12:14 (KLZ_WT19)
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		11:24 (KLZ_WT19)
	21:50	38	21:19 (EVE_WT01)	20:59	24	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39	51	12:15 (KLZ_WT19)
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		11:24 (KLZ_WT19)
	21:49	37	21:19 (EVE_WT01)	20:57	26	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40	51	12:15 (KLZ_WT19)
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		11:25 (KLZ_WT19)
	21:48	35	21:17 (EVE_WT01)	20:55	29	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40	51	12:16 (KLZ_WT19)
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:47	32	21:16 (EVE_WT01)	20:52	36	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	42	11:44 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:45	29	21:14 (EVE_WT01)	20:50	35	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	46	11:48 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		11:27 (KLZ_WT19)
	21:44	29	21:14 (EVE_WT01)	20:48	34	08:08 (SAM_WT07)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	49	11:51 (KLZ_WT19)	16:42	50	12:17 (KLZ_WT19)
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:43	26	07:00 (SAM_WT06)	20:46	34	08:09 (SAM_WT07)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	51	11:53 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:41	26	07:00 (SAM_WT06)	20:44	34	08:09 (SAM_WT07)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	51	11:55 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:40	24	07:00 (SAM_WT06)	20:42	32	08:09 (SAM_WT07)	19:32	8	08:12 (SAM_WT04)	17:28	3	07:59 (SAM_WT05)	16:44	51	11:57 (KLZ_WT19)	16:44	49	12:17 (KLZ_WT19)
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31			08:23		09:07 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:38	23	06:59 (SAM_WT06)	20:40	33	08:09 (SAM_WT07)	19:30	6	08:12 (SAM_WT04)	17:26			16:43	50	11:58 (KLZ_WT19)	16:45	50	12:18 (KLZ_WT19)
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		11:29 (KLZ_WT19)
	21:37	22	06:58 (SAM_WT06)	20:38	33	08:09 (SAM_WT07)	19:28	2	08:09 (SAM_WT04)	17:25	11	09:14 (CBR_WT01)	16:43	47	11:59 (KLZ_WT19)	16:46	49	12:18 (KLZ_WT19)
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		11:30 (KLZ_WT19)
	21:35	21	06:58 (SAM_WT06)	20:35	33	08:08 (SAM_WT07)				17:23	17	09:17 (CBR_WT01)				16:47	48	12:18 (KLZ_WT19)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		803			592			488			266			1097			1491	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,67			0,61			0,62			0,56			0,55			0,62	
Total reduction		0,29			0,28			0,26			0,20			0,14			0,14	
Total, real		234			165			128			53			158			204	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:
WP Kluizendok v1

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February			March			April			May			June		
1	08:49	08:24			07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48	17:35			18:25	98	17:51 (KLZ_WT10)	20:17	230	18:47 (KLZ_WT19)	21:06	110	20:38 (EVE_WT02)	21:50	20	06:24 (SAM_WT11)
2	08:49	08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49	17:36			18:26	102	17:51 (KLZ_WT10)	20:19	226	18:46 (KLZ_WT19)	21:08	106	20:40 (EVE_WT02)	21:51	21	06:25 (SAM_WT11)
3	08:49	08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50	17:38			18:28	104	17:50 (KLZ_WT10)	20:20	221	18:43 (KLZ_WT19)	21:09	102	20:41 (EVE_WT02)	21:53	22	06:25 (SAM_WT11)
4	08:49	08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51	17:40			18:30	109	17:49 (KLZ_WT10)	20:22	216	18:41 (KLZ_WT19)	21:11	96	16:17 (CBR_WT01)	21:54	24	06:26 (SAM_WT11)
5	08:49	08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52	17:42			18:32	116	17:46 (KLZ_WT10)	20:24	207	18:37 (KLZ_WT19)	21:13	91	16:16 (CBR_WT01)	21:55	25	06:27 (SAM_WT11)
6	08:49	08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54	17:44			18:33	125	17:48 (KLZ_WT19)	20:25	192	16:34 (CBR_WT01)	21:14	85	16:14 (CBR_WT01)	21:55	26	06:27 (SAM_WT11)
7	08:48	08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55	17:45			18:35	133	17:51 (KLZ_WT19)	20:27	191	16:34 (CBR_WT01)	21:16	79	16:13 (CBR_WT01)	21:56	27	06:28 (SAM_WT11)
8	08:48	08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56	17:47			18:37	140	17:53 (KLZ_WT19)	20:28	189	16:34 (CBR_WT01)	21:17	72	16:11 (CBR_WT01)	21:57	28	06:28 (SAM_WT11)
9	08:47	08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57	17:49			18:38	145	17:53 (KLZ_WT19)	20:30	187	16:34 (CBR_WT01)	21:19	66	16:10 (CBR_WT01)	21:58	29	06:29 (SAM_WT11)
10	08:47	08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59	17:51			18:40	151	17:55 (KLZ_WT19)	20:32	185	16:34 (CBR_WT01)	21:20	58	16:08 (CBR_WT01)	21:59	29	06:29 (SAM_WT11)
11	08:46	08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00	17:53			18:42	155	17:56 (KLZ_WT19)	20:33	182	16:32 (CBR_WT01)	21:22	51	16:07 (CBR_WT01)	21:59	30	06:29 (SAM_WT11)
12	08:46	08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02	17:54			18:44	160	17:57 (KLZ_WT19)	20:35	179	16:32 (CBR_WT01)	21:24	42	20:54 (KLZ_WT13)	22:00	31	06:30 (SAM_WT11)
13	08:45	08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03	17:56			18:45	164	17:57 (KLZ_WT19)	20:37	175	16:32 (CBR_WT01)	21:25	29	20:56 (KLZ_WT13)	22:01	31	06:30 (SAM_WT11)
14	08:44	08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:55 (KLZ_WT13)	05:30		05:59 (SAM_WT11)
	17:05	17:58			18:47	168	17:58 (KLZ_WT19)	20:38	171	16:31 (CBR_WT01)	21:27	2	20:57 (KLZ_WT13)	22:01	32	06:31 (SAM_WT11)
15	08:44	08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56			05:30		05:59 (SAM_WT11)
	17:06	18:00			18:49	177	17:59 (KLZ_WT19)	20:40	167	16:31 (CBR_WT01)	21:28			22:02	32	06:31 (SAM_WT11)
16	08:43	07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55			05:29		05:59 (SAM_WT11)
	17:08	18:02			18:50	193	17:59 (KLZ_WT19)	20:42	161	16:31 (CBR_WT01)	21:30			22:02	33	06:32 (SAM_WT11)
17	08:42	07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53			05:29		05:59 (SAM_WT11)
	17:09	18:03			18:52	202	17:59 (KLZ_WT19)	20:43	155	16:30 (CBR_WT01)	21:31			22:03	33	06:32 (SAM_WT11)
18	08:41	07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52			05:29		05:59 (SAM_WT11)
	17:11	18:05			18:54	211	17:59 (KLZ_WT19)	20:45	149	16:30 (CBR_WT01)	21:32			22:03	33	06:32 (SAM_WT11)
19	08:40	07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51			05:29		05:59 (SAM_WT11)
	17:12	18:07			18:55	217	17:59 (KLZ_WT19)	20:47	139	16:29 (CBR_WT01)	21:34			22:04	33	06:32 (SAM_WT11)
20	08:39	07:51			06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49			05:30		05:59 (SAM_WT11)
	17:14	18:09			18:57	221	17:59 (KLZ_WT19)	20:48	130	16:29 (CBR_WT01)	21:35			22:04	33	06:32 (SAM_WT11)
21	08:38	07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48			05:30		05:59 (SAM_WT11)
	17:16	18:11	27	14:48 (CBR_WT01)	18:59	225	17:58 (KLZ_WT19)	20:50	129	16:28 (CBR_WT01)	21:37			22:04	33	06:32 (SAM_WT11)
22	08:37	07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47			05:30		06:00 (SAM_WT11)
	17:17	18:12	38	14:53 (CBR_WT01)	19:00	228	17:58 (KLZ_WT19)	20:51	131	16:27 (CBR_WT01)	21:38			22:04	33	06:33 (SAM_WT11)
23	08:36	07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46			05:30		06:00 (SAM_WT11)
	17:19	18:14	52	17:46 (KLZ_WT10)	19:02	231	17:58 (KLZ_WT19)	20:53	131	16:27 (CBR_WT01)	21:39			22:05	33	06:33 (SAM_WT11)
24	08:35	07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21	18:16	66	17:50 (KLZ_WT08)	19:04	233	17:56 (KLZ_WT19)	20:55	130	16:26 (CBR_WT01)	21:41	2	21:10 (EVE_WT01)	22:05	33	06:33 (SAM_WT11)
25	08:33	07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22	18:18	76	17:52 (KLZ_WT08)	19:05	235	17:56 (KLZ_WT19)	20:56	129	16:25 (CBR_WT01)	21:42	3	21:11 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
26	08:32	07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24	18:19	85	17:54 (KLZ_WT08)	19:07	236	17:55 (KLZ_WT19)	20:58	126	16:24 (CBR_WT01)	21:43	7	21:12 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
27	08:31	07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26	18:21	93	17:55 (KLZ_WT08)	19:09	237	17:55 (KLZ_WT19)	21:00	123	16:23 (CBR_WT01)	21:45	10	21:13 (EVE_WT01)	22:05	32	06:33 (SAM_WT11)
28	08:30	07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28	18:23	97	17:54 (KLZ_WT08)	19:10	236	17:53 (KLZ_WT19)	21:01	119	16:22 (CBR_WT01)	21:46	12	06:19 (SAM_WT11)	22:05	32	06:34 (SAM_WT11)
29	08:28				07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29				20:12	234	18:52 (KLZ_WT19)	21:03	116	16:22 (CBR_WT01)	21:47	14	06:20 (SAM_WT11)	22:05	31	06:33 (SAM_WT11)
30	08:27				07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31				20:14	235	18:51 (KLZ_WT19)	21:05	112	16:21 (CBR_WT01)	21:48	16	06:22 (SAM_WT11)	22:04	31	06:34 (SAM_WT11)
31	08:25				07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33				20:15	234	18:50 (KLZ_WT19)				21:49	18	06:23 (SAM_WT11)			
Potential sun hours	262	279			367			415			482			495		
Total, worst case			534			5655			4898			1071			896	
Sun reduction			0,30			0,38			0,46			0,46			0,44	
Oper. time red.			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.			0,72			0,69			0,70			0,70			0,71	
Total reduction			0,21			0,26			0,32			0,31			0,31	
Total, real			112			1451			1543			335			274	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34		06:04 (SAM_WT08)	06:09	07:09 (SAM_WT04)	06:57	08:19 (SAM_WT05)	07:44	14:12 (CBR_WT01)	07:36	08:26
	22:04	30	06:34 (SAM_WT11)	21:33 45	16:15 (CBR_WT01)	20:33 182	16:32 (CBR_WT01)	19:25 162	18:36 (KLZ_WT19)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10	07:07 (SAM_WT04)	06:59	08:18 (SAM_WT05)	07:46	14:13 (CBR_WT01)	07:38	08:27
	22:04	30	06:34 (SAM_WT11)	21:32 54	16:17 (CBR_WT01)	20:31 184	16:31 (CBR_WT01)	19:23 159	18:36 (KLZ_WT19)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12	07:07 (SAM_WT04)	07:00	08:17 (SAM_WT05)	07:48	14:14 (CBR_WT01)	07:40	08:29
	22:03	29	06:34 (SAM_WT11)	21:30 61	16:19 (CBR_WT01)	20:29 187	16:32 (CBR_WT01)	19:21 153	18:33 (KLZ_WT19)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13	07:05 (SAM_WT04)	07:02	08:16 (SAM_WT05)	07:49	14:15 (CBR_WT01)	07:42	08:30
	22:03	28	06:34 (SAM_WT11)	21:29 69	16:21 (CBR_WT01)	20:27 189	16:31 (CBR_WT01)	19:19 148	18:32 (KLZ_WT19)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15	07:05 (SAM_WT04)	07:03	08:15 (SAM_WT05)	07:51	14:16 (CBR_WT01)	07:43	08:31
	22:03	27	06:33 (SAM_WT11)	21:27 75	16:22 (CBR_WT01)	20:24 191	16:31 (CBR_WT01)	19:16 142	18:30 (KLZ_WT19)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16	07:04 (SAM_WT04)	07:05	08:14 (SAM_WT05)	07:52	14:17 (CBR_WT01)	07:45	08:33
	22:02	26	06:33 (SAM_WT11)	21:25 81	16:23 (CBR_WT01)	20:22 192	16:30 (CBR_WT01)	19:14 136	18:28 (KLZ_WT19)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18	07:04 (SAM_WT04)	07:06	08:14 (SAM_WT05)	07:54	14:18 (CBR_WT01)	07:47	08:34
	22:02	25	06:33 (SAM_WT11)	21:23 87	16:25 (CBR_WT01)	20:20 207	18:32 (KLZ_WT19)	19:12 129	18:25 (KLZ_WT19)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20	07:03 (SAM_WT04)	07:08	08:13 (SAM_WT05)	07:56	14:20 (CBR_WT01)	07:49	08:35
	22:01	24	06:33 (SAM_WT11)	21:22 92	16:25 (CBR_WT01)	20:18 216	18:35 (KLZ_WT19)	19:10 120	18:23 (KLZ_WT19)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21	07:02 (SAM_WT04)	07:10	08:13 (SAM_WT05)	07:57	14:20 (CBR_WT01)	07:50	08:36
	22:00	23	06:33 (SAM_WT11)	21:20 98	20:51 (EVE_WT02)	20:15 221	18:37 (KLZ_WT19)	19:08 114	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23	07:02 (SAM_WT04)	07:11	08:12 (SAM_WT05)	07:59	14:22 (CBR_WT01)	07:52	08:37
	22:00	22	06:33 (SAM_WT11)	21:18 103	20:50 (EVE_WT02)	20:13 227	18:39 (KLZ_WT19)	19:05 105	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24	07:01 (SAM_WT04)	07:13	08:12 (SAM_WT05)	08:01	14:24 (CBR_WT01)	07:54	08:38
	21:59	20	06:32 (SAM_WT11)	21:16 108	20:48 (EVE_WT02)	20:11 229	18:40 (KLZ_WT19)	19:03 103	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26	07:02 (SAM_WT04)	07:14	08:11 (SAM_WT05)	08:02	14:25 (CBR_WT01)	07:56	08:39
	21:58	19	06:32 (SAM_WT11)	21:14 110	16:29 (CBR_WT01)	20:09 233	18:41 (KLZ_WT19)	19:01 100	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27	07:01 (SAM_WT04)	07:16	08:12 (SAM_WT05)	08:04	14:27 (CBR_WT01)	07:57	08:40
	21:57	17	06:31 (SAM_WT11)	21:12 115	16:29 (CBR_WT01)	20:06 233	18:42 (KLZ_WT19)	18:59 97	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29	07:02 (SAM_WT04)	07:17	08:11 (SAM_WT05)	08:06	14:29 (CBR_WT01)	07:59	08:41
	21:56	15	06:30 (SAM_WT11)	21:11 118	16:30 (CBR_WT01)	20:04 236	18:42 (KLZ_WT19)	18:57 96	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30	07:01 (SAM_WT04)	07:19	08:11 (SAM_WT05)	08:07	14:32 (CBR_WT01)	08:01	08:42
	21:55	13	06:29 (SAM_WT11)	21:09 122	16:30 (CBR_WT01)	20:02 237	18:43 (KLZ_WT19)	18:55 89	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32	07:02 (SAM_WT04)	07:21	08:11 (SAM_WT05)	08:09	14:33 (CBR_WT01)	08:02	08:43
	21:54	11	06:28 (SAM_WT11)	21:07 124	16:31 (CBR_WT01)	19:59 236	18:43 (KLZ_WT19)	18:52 82	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33	07:02 (SAM_WT04)	07:22	08:12 (SAM_WT05)	08:11	14:36 (CBR_WT01)	08:04	08:44
	21:53	9	21:22 (EVE_WT01)	21:05 127	16:31 (CBR_WT01)	19:57 236	18:44 (KLZ_WT19)	18:50 72	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35	07:03 (SAM_WT04)	07:24	08:11 (SAM_WT05)	08:12	14:40 (CBR_WT01)	08:06	08:44
	21:52	5	21:21 (EVE_WT01)	21:03 129	16:32 (CBR_WT01)	19:55 235	18:43 (KLZ_WT19)	18:48 60	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37	07:04 (SAM_WT04)	07:25	08:12 (SAM_WT05)	08:14	14:43 (CBR_WT01)	08:07	08:45
	21:51	3	21:20 (EVE_WT01)	21:01 130	16:32 (CBR_WT01)	19:53 234	18:44 (KLZ_WT19)	18:46 45	15:28 (CBR_WT01)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38	07:05 (SAM_WT04)	07:27	08:13 (SAM_WT05)	08:16	14:47 (CBR_WT01)	08:09	08:46
	21:50	2	21:19 (EVE_WT01)	20:59 131	16:32 (CBR_WT01)	19:50 233	18:44 (KLZ_WT19)	18:44 35	15:22 (CBR_WT01)	16:52	16:39
21	05:54			06:40	07:06 (SAM_WT04)	07:28	08:14 (SAM_WT05)	08:17	14:54 (CBR_WT01)	08:11	08:46
	21:49			20:57 130	16:32 (CBR_WT01)	19:48 228	18:43 (KLZ_WT19)	18:42 22	15:16 (CBR_WT01)	16:51	16:40
22	05:55			06:41	07:09 (SAM_WT04)	07:30	08:15 (SAM_WT05)	08:19		08:12	08:47
	21:48			20:55 129	16:33 (CBR_WT01)	19:46 227	18:44 (KLZ_WT19)	18:40		16:50	16:40
23	05:56			06:43	08:39 (SAM_WT05)	07:32	08:16 (SAM_WT05)	08:21		08:14	08:47
	21:46			20:52 128	16:32 (CBR_WT01)	19:43 222	18:43 (KLZ_WT19)	18:38		16:49	16:41
24	05:58			06:44	08:35 (SAM_WT05)	07:33	08:17 (SAM_WT05)	08:23		08:15	08:48
	21:45			20:50 141	16:33 (CBR_WT01)	19:41 217	18:43 (KLZ_WT19)	18:36		16:48	16:41
25	05:59			06:46	08:31 (SAM_WT05)	07:35	08:18 (SAM_WT05)	07:24		08:17	08:48
	21:44			20:48 149	16:32 (CBR_WT01)	19:39 212	18:42 (KLZ_WT19)	17:34		16:47	16:42
26	06:00			06:48	08:29 (SAM_WT05)	07:36	08:21 (SAM_WT05)	07:26		08:19	08:49
	21:42			20:46 156	16:33 (CBR_WT01)	19:37 205	18:41 (KLZ_WT19)	17:32		16:46	16:43
27	06:02			06:49	08:26 (SAM_WT05)	07:38	08:24 (SAM_WT05)	07:28		08:20	08:49
	21:41			20:44 162	16:32 (CBR_WT01)	19:34 196	18:41 (KLZ_WT19)	17:30		16:45	16:43
28	06:03			06:51	08:25 (SAM_WT05)	07:40	08:27 (SAM_WT05)	07:29		08:22	08:49
	21:40			20:42 167	16:33 (CBR_WT01)	19:32 186	18:40 (KLZ_WT19)	17:28		16:44	16:44
29	06:05		21:07 (KLZ_WT13)	06:52	08:23 (SAM_WT05)	07:41	14:11 (CBR_WT01)	07:31		08:23	08:49
	21:38	1	21:08 (KLZ_WT13)	20:40 171	16:32 (CBR_WT01)	19:30 169	18:39 (KLZ_WT19)	17:26		16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54	08:22 (SAM_WT05)	07:43	14:11 (CBR_WT01)	07:33		08:24	08:49
	21:37	16	21:07 (KLZ_WT13)	20:38 175	16:33 (CBR_WT01)	19:28 166	18:37 (KLZ_WT19)	17:25		16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55	08:20 (SAM_WT05)			07:35			08:49
	21:35	34	21:06 (KLZ_WT13)	20:35 179	16:32 (CBR_WT01)			17:23			16:47
Potential sun hours	498			451		380		333		269	248
Total, worst case		429		3666		6366		2169			
Sun reduction		0,45		0,47		0,43		0,36			
Oper. time red.		0,97		0,97		0,97		0,97			
Wind dir. red.		0,71		0,71		0,69		0,71			
Total reduction		0,31		0,32		0,29		0,25			
Total, real		132		1178		1848		548			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:49			08:24			07:32			07:23		19:33 (KLZ_WT19)	06:20		19:41 (SAM_WT05)	05:36		21:09 (SAM_WT07)
	16:48			17:34			18:25			20:17	18	19:51 (CBR_WT01)	21:06	20	20:01 (SAM_WT05)	21:50	10	21:19 (SAM_WT07)
2	08:49			08:22			07:30			07:21		19:32 (CBR_WT01)	06:18		19:42 (SAM_WT05)	05:35		21:08 (SAM_WT07)
	16:49			17:36			18:26			20:18	20	19:52 (CBR_WT01)	21:08	17	19:59 (SAM_WT05)	21:51	11	21:19 (SAM_WT07)
3	08:49			08:21			07:28			07:19		19:31 (CBR_WT01)	06:16		19:44 (SAM_WT05)	05:35		21:08 (SAM_WT07)
	16:50			17:38			18:28			20:20	21	19:52 (CBR_WT01)	21:09	12	19:56 (SAM_WT05)	21:52	13	21:21 (SAM_WT07)
4	08:49			08:19			07:26			07:16		19:31 (CBR_WT01)	06:14			05:34		21:07 (SAM_WT07)
	16:51			17:40			18:30			20:22	22	19:53 (CBR_WT01)	21:11			21:53	14	21:21 (SAM_WT07)
5	08:49			08:18		17:12 (ALB_WT01)	07:23			07:14		19:30 (CBR_WT01)	06:13			05:33		21:07 (SAM_WT07)
	16:52			17:42	1	17:13 (ALB_WT01)	18:32			20:23	22	19:52 (CBR_WT01)	21:12			21:54	16	21:23 (SAM_WT07)
6	08:48			08:16		17:12 (ALB_WT01)	07:21			07:12		19:30 (CBR_WT01)	06:11			05:33		21:07 (SAM_WT07)
	16:54			17:43	3	17:15 (ALB_WT01)	18:33			20:25	21	19:51 (CBR_WT01)	21:14			21:55	16	21:23 (SAM_WT07)
7	08:48			08:14		17:13 (ALB_WT01)	07:19			07:10		19:30 (CBR_WT01)	06:09			05:32		21:07 (SAM_WT07)
	16:55			17:45	4	17:17 (ALB_WT01)	18:35			20:27	21	19:51 (CBR_WT01)	21:16			21:56	17	21:24 (SAM_WT07)
8	08:48			08:13			07:17			07:08		19:31 (CBR_WT01)	06:07			05:32		21:06 (SAM_WT07)
	16:56			17:47			18:37			20:28	19	19:50 (CBR_WT01)	21:17			21:57	18	21:24 (SAM_WT07)
9	08:47			08:11			07:15			07:05		19:32 (CBR_WT01)	06:06			05:31		21:07 (SAM_WT07)
	16:57			17:49			18:38			20:30	25	19:59 (SAM_WT05)	21:19			21:58	19	21:26 (SAM_WT07)
10	08:47			08:09			07:13			07:03		19:33 (CBR_WT01)	06:04			05:31		21:07 (SAM_WT07)
	16:59			17:51			18:40			20:32	30	20:03 (SAM_WT05)	21:20			21:59	20	21:27 (SAM_WT07)
11	08:46			08:07			07:10			07:01		19:34 (CBR_WT01)	06:02			05:30		21:06 (SAM_WT07)
	17:00			17:53			18:42			20:33	30	20:04 (SAM_WT05)	21:22			21:59	21	21:27 (SAM_WT07)
12	08:46		16:27 (RHR_WT01)	08:06			07:08			06:59		19:41 (SAM_WT05)	06:01			05:30		21:06 (SAM_WT07)
	17:02	1	16:28 (RHR_WT01)	17:54			18:43			20:35	25	20:06 (SAM_WT05)	21:23			22:00	21	21:27 (SAM_WT07)
13	08:45		16:26 (RHR_WT01)	08:04			07:06			06:57		19:40 (SAM_WT05)	05:59		20:55 (KLZ_WT20)	05:30		21:07 (SAM_WT07)
	17:03	4	16:30 (RHR_WT01)	17:56			18:45			20:37	27	20:07 (SAM_WT05)	21:25	1	20:56 (KLZ_WT20)	22:01	21	21:28 (SAM_WT07)
14	08:44		16:28 (RHR_WT01)	08:02			07:04			06:54		19:39 (SAM_WT05)	05:58		20:56 (KLZ_WT20)	05:30		21:07 (SAM_WT07)
	17:04	4	16:32 (RHR_WT01)	17:58			18:47			20:38	29	20:08 (SAM_WT05)	21:26	1	20:57 (KLZ_WT20)	22:01	22	21:29 (SAM_WT07)
15	08:44		16:28 (RHR_WT01)	08:00			07:01			06:52		19:38 (SAM_WT05)	05:56			05:30		21:07 (SAM_WT07)
	17:06	6	16:34 (RHR_WT01)	18:00			18:49			20:40	31	20:09 (SAM_WT05)	21:28			22:02	22	21:29 (SAM_WT07)
16	08:43		16:28 (RHR_WT01)	07:58		17:32 (MXS_WT01)	06:59			06:50		19:37 (SAM_WT05)	05:55			05:29		21:07 (SAM_WT07)
	17:08	8	16:36 (RHR_WT01)	18:02	2	17:34 (MXS_WT01)	18:50			20:42	32	20:09 (SAM_WT05)	21:29			22:02	23	21:30 (SAM_WT07)
17	08:42		16:28 (RHR_WT01)	07:56		17:32 (MXS_WT01)	06:57			06:48		19:36 (SAM_WT05)	05:53			05:29		21:07 (SAM_WT07)
	17:09	9	16:37 (RHR_WT01)	18:03	4	17:36 (MXS_WT01)	18:52			20:43	33	20:09 (SAM_WT05)	21:31			22:03	23	21:30 (SAM_WT07)
18	08:41		16:29 (RHR_WT01)	07:54		17:33 (MXS_WT01)	06:55			06:46		19:36 (SAM_WT05)	05:52			05:29		21:07 (SAM_WT07)
	17:11	10	16:39 (RHR_WT01)	18:05	5	17:38 (MXS_WT01)	18:54			20:45	34	20:10 (SAM_WT05)	21:32			22:03	23	21:30 (SAM_WT07)
19	08:40		16:30 (RHR_WT01)	07:52		17:34 (MXS_WT01)	06:52			06:44		19:35 (SAM_WT05)	05:51			05:29		21:08 (SAM_WT07)
	17:12	11	16:41 (RHR_WT01)	18:07	6	17:40 (MXS_WT01)	18:55			20:46	35	20:10 (SAM_WT05)	21:34			22:04	22	21:30 (SAM_WT07)
20	08:39		16:29 (RHR_WT01)	07:50			06:50			06:42		19:35 (SAM_WT05)	05:49			05:29		21:08 (SAM_WT07)
	17:14	13	16:42 (RHR_WT01)	18:09			18:57			20:48	35	20:10 (SAM_WT05)	21:35			22:04	22	21:30 (SAM_WT07)
21	08:38		16:31 (RHR_WT01)	07:48			06:48			06:40		19:35 (SAM_WT05)	05:48			05:30		21:08 (SAM_WT07)
	17:16	13	16:44 (RHR_WT01)	18:10			18:59			20:50	34	20:09 (SAM_WT05)	21:37			22:04	22	21:30 (SAM_WT07)
22	08:37		16:32 (RHR_WT01)	07:46			06:46			06:38		19:35 (SAM_WT05)	05:47			05:30		21:08 (SAM_WT07)
	17:17	12	16:44 (RHR_WT01)	18:12			19:00			20:51	34	20:09 (SAM_WT05)	21:38			22:04	22	21:30 (SAM_WT07)
23	08:36		16:33 (RHR_WT01)	07:44			06:43			06:36		19:35 (SAM_WT05)	05:45			05:30		21:09 (SAM_WT07)
	17:19	11	16:44 (RHR_WT01)	18:14			19:02			20:53	34	20:09 (SAM_WT05)	21:39			22:05	22	21:31 (SAM_WT07)
24	08:35		16:35 (RHR_WT01)	07:42			06:41			06:34		19:35 (SAM_WT05)	05:44			05:30		21:08 (SAM_WT07)
	17:21	8	16:49 (RHR_WT03)	18:16			19:04			20:55	33	20:08 (SAM_WT05)	21:41			22:05	23	21:31 (SAM_WT07)
25	08:33		16:49 (RHR_WT03)	07:40			06:39		18:39 (KLZ_WT19)	06:32		19:35 (SAM_WT05)	05:43			05:31		21:08 (SAM_WT07)
	17:22	3	16:52 (RHR_WT03)	18:18			19:05	1	18:40 (KLZ_WT19)	20:56	32	20:07 (SAM_WT05)	21:42			22:05	23	21:31 (SAM_WT07)
26	08:32		16:50 (RHR_WT03)	07:38			06:37		18:37 (KLZ_WT19)	06:30		19:35 (SAM_WT05)	05:42			05:31		21:09 (SAM_WT07)
	17:24	4	16:54 (RHR_WT03)	18:19			19:07	5	18:42 (KLZ_WT19)	20:58	32	20:07 (SAM_WT05)	21:43			22:05	23	21:32 (SAM_WT07)
27	08:31		16:50 (RHR_WT03)	07:36			06:34		18:36 (KLZ_WT19)	06:28		19:36 (SAM_WT05)	05:41			05:31		21:09 (SAM_WT07)
	17:26	5	16:55 (RHR_WT03)	18:21			19:09	8	18:44 (KLZ_WT19)	21:00	30	20:06 (SAM_WT05)	21:44			22:05	22	21:31 (SAM_WT07)
28	08:29		16:51 (RHR_WT03)	07:34			06:32		18:34 (KLZ_WT19)	06:26		19:36 (SAM_WT05)	05:40			05:32		21:10 (SAM_WT07)
	17:27	7	16:58 (RHR_WT03)	18:23			19:10	11	18:45 (KLZ_WT19)	21:01	28	20:04 (SAM_WT05)	21:46			22:05	22	21:32 (SAM_WT07)
29	08:28		16:52 (RHR_WT03)				07:30		19:33 (KLZ_WT19)	06:24		19:37 (SAM_WT05)	05:39			05:32		21:10 (SAM_WT07)
	17:29	7	16:59 (RHR_WT03)				20:12	14	19:47 (KLZ_WT19)	21:03	26	20:03 (SAM_WT05)	21:47			22:04	21	21:31 (SAM_WT07)
30	08:27		16:55 (RHR_WT03)				07:28		19:33 (KLZ_WT19)	06:22		19:39 (SAM_WT05)	05:38		21:12 (SAM_WT07)	05:33		21:10 (SAM_WT07)
	17:31	4	16:59 (RHR_WT03)				20:14	16	19:49 (KLZ_WT19)	21:04	24	20:03 (SAM_WT05)	21:48	5	21:17 (SAM_WT07)	22:04	22	21:32 (SAM_WT07)
31	08:25						07:25		19:33 (KLZ_WT19)				05:37		21:10 (SAM_WT07)			
	17:33						20:15	17	19:50 (KLZ_WT19)				21:49	8	21:18 (SAM_WT07)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		140			25			72			837			64			596	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,69			0,62			0,59			0,58			0,55	
Total reduction		0,17			0,20			0,23			0,27			0,26			0,24	
Total, real		24			5			16			223			16			142	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		21:10 (SAM_WT07)	06:09			06:57		19:33 (CBR_WT01)	07:44			07:36			08:26		
	22:04	21	21:31 (SAM_WT07)	21:33			20:33	30	20:03 (SAM_WT05)	19:25			17:21			16:42		
2	05:34		21:11 (SAM_WT07)	06:10			06:58		19:31 (CBR_WT01)	07:46			07:38			08:27		
	22:04	20	21:31 (SAM_WT07)	21:32			20:31	30	20:01 (SAM_WT05)	19:23			17:19			16:41		
3	05:35		21:12 (SAM_WT07)	06:12			07:00		19:30 (CBR_WT01)	07:47			07:40		16:45 (ALB_WT01)	08:29		
	22:03	19	21:31 (SAM_WT07)	21:30			20:29	25	19:57 (SAM_WT05)	19:21			17:17	2	16:47 (ALB_WT01)	16:41		
4	05:36		21:12 (SAM_WT07)	06:13			07:02		19:28 (CBR_WT01)	07:49			07:42		16:43 (ALB_WT01)	08:30		
	22:03	19	21:31 (SAM_WT07)	21:28			20:26	19	19:47 (CBR_WT01)	19:18			17:16	3	16:46 (ALB_WT01)	16:40		
5	05:37		21:12 (SAM_WT07)	06:15			07:03		19:27 (CBR_WT01)	07:51			07:43		16:42 (ALB_WT01)	08:31		
	22:02	18	21:30 (SAM_WT07)	21:27			20:24	21	19:48 (CBR_WT01)	19:16			17:14	2	16:44 (ALB_WT01)	16:40		
6	05:37		21:13 (SAM_WT07)	06:16			07:05		19:26 (CBR_WT01)	07:52			07:45		16:42 (ALB_WT01)	08:32		
	22:02	17	21:30 (SAM_WT07)	21:25			20:22	21	19:47 (CBR_WT01)	19:14			17:12	1	16:43 (ALB_WT01)	16:39		
7	05:38		21:14 (SAM_WT07)	06:18			07:06		19:26 (CBR_WT01)	07:54			07:47			08:34		
	22:01	15	21:29 (SAM_WT07)	21:23			20:20	22	19:48 (CBR_WT01)	19:12			17:10			16:39		
8	05:39		21:14 (SAM_WT07)	06:19			07:08		19:25 (CBR_WT01)	07:56			07:49			08:35		
	22:01	15	21:29 (SAM_WT07)	21:22			20:17	22	19:47 (CBR_WT01)	19:10			17:09			16:39		
9	05:40		21:15 (SAM_WT07)	06:21		19:57 (SAM_WT05)	07:09		19:26 (CBR_WT01)	07:57			07:50			08:36		
	22:00	13	21:28 (SAM_WT07)	21:20	4	20:01 (SAM_WT05)	20:15	21	19:47 (CBR_WT01)	19:07			17:07			16:38		
10	05:41		21:16 (SAM_WT07)	06:23		19:53 (SAM_WT05)	07:11		19:25 (CBR_WT01)	07:59			07:52			08:37		
	21:59	12	21:28 (SAM_WT07)	21:18	13	20:06 (SAM_WT05)	20:13	20	19:45 (CBR_WT01)	19:05			17:06			16:38		
11	05:42		21:17 (SAM_WT07)	06:24		19:50 (SAM_WT05)	07:13		19:26 (KLZ_WT19)	08:01			07:54			08:38		
	21:59	10	21:27 (SAM_WT07)	21:16	18	20:08 (SAM_WT05)	20:11	18	19:44 (CBR_WT01)	19:03			17:04			16:38		
12	05:43		21:18 (SAM_WT07)	06:26		19:49 (SAM_WT05)	07:14		19:24 (KLZ_WT19)	08:02			07:55		16:26 (RHR_WT03)	08:39		
	21:58	9	21:27 (SAM_WT07)	21:14	21	20:10 (SAM_WT05)	20:08	18	19:42 (KLZ_WT19)	19:01			17:03	4	16:30 (RHR_WT03)	16:38		
13	05:44		21:20 (SAM_WT07)	06:27		19:46 (SAM_WT05)	07:16		19:24 (KLZ_WT19)	08:04			07:57		16:24 (RHR_WT03)	08:40		
	21:57	6	21:26 (SAM_WT07)	21:12	24	20:10 (SAM_WT05)	20:06	16	19:40 (KLZ_WT19)	18:59			17:01	7	16:31 (RHR_WT03)	16:38		
14	05:45		21:23 (SAM_WT07)	06:29		19:46 (SAM_WT05)	07:17		19:24 (KLZ_WT19)	08:06			07:59		16:23 (RHR_WT03)	08:41		
	21:56	2	21:25 (SAM_WT07)	21:10	26	20:12 (SAM_WT05)	20:04	13	19:37 (KLZ_WT19)	18:57			17:00	6	16:29 (RHR_WT03)	16:38		
15	05:46			06:30		19:44 (SAM_WT05)	07:19		19:24 (KLZ_WT19)	08:07			08:01		16:23 (RHR_WT03)	08:42		
	21:55			21:08	28	20:12 (SAM_WT05)	20:02	11	19:35 (KLZ_WT19)	18:54			16:58	5	16:28 (RHR_WT03)	16:38		
16	05:47			06:32		19:43 (SAM_WT05)	07:20		19:24 (KLZ_WT19)	08:09			08:02		16:23 (RHR_WT03)	08:43		
	21:54			21:07	30	20:13 (SAM_WT05)	19:59	9	19:33 (KLZ_WT19)	18:52			16:57	4	16:27 (RHR_WT03)	16:38		
17	05:49			06:33		19:42 (SAM_WT05)	07:22		19:25 (KLZ_WT19)	08:11			08:04		16:22 (RHR_WT03)	08:44		
	21:53			21:05	31	20:13 (SAM_WT05)	19:57	6	19:31 (KLZ_WT19)	18:50			16:56	2	16:24 (RHR_WT03)	16:38		
18	05:50			06:35		19:42 (SAM_WT05)	07:24		19:26 (KLZ_WT19)	08:12			08:06		16:09 (RHR_WT01)	08:44		15:52 (RHR_WT02)
	21:52			21:03	32	20:14 (SAM_WT05)	19:55	2	19:28 (KLZ_WT19)	18:48			16:54	8	16:23 (RHR_WT03)	16:39	2	15:54 (RHR_WT02)
19	05:51			06:37		19:40 (SAM_WT05)	07:25			08:14			08:07		16:07 (RHR_WT01)	08:45		15:53 (RHR_WT02)
	21:51			21:01	34	20:14 (SAM_WT05)	19:53			18:46			16:53	11	16:18 (RHR_WT01)	16:39	2	15:55 (RHR_WT02)
20	05:52			06:38		19:40 (SAM_WT05)	07:27			08:16			08:09		16:07 (RHR_WT01)	08:46		15:52 (RHR_WT02)
	21:50			20:59	34	20:14 (SAM_WT05)	19:50			18:44			16:52	12	16:19 (RHR_WT01)	16:39	4	15:56 (RHR_WT02)
21	05:54			06:40		19:39 (SAM_WT05)	07:28			08:17			08:11		16:07 (RHR_WT01)	08:46		15:53 (RHR_WT02)
	21:49			20:56	35	20:14 (SAM_WT05)	19:48			18:42			16:51	13	16:20 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
22	05:55			06:41		19:39 (SAM_WT05)	07:30			08:19		18:07 (MXS_WT01)	08:12		16:06 (RHR_WT01)	08:47		15:53 (RHR_WT02)
	21:48			20:54	35	20:14 (SAM_WT05)	19:46			18:40	3	18:10 (MXS_WT01)	16:50	12	16:18 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
23	05:56			06:43		19:39 (SAM_WT05)	07:31			08:21		18:04 (MXS_WT01)	08:14		16:06 (RHR_WT01)	08:47		15:54 (RHR_WT02)
	21:46			20:52	34	20:13 (SAM_WT05)	19:43			18:38	6	18:10 (MXS_WT01)	16:49	11	16:17 (RHR_WT01)	16:41	4	15:58 (RHR_WT02)
24	05:58			06:44		19:39 (SAM_WT05)	07:33			08:22		18:03 (MXS_WT01)	08:15		16:06 (RHR_WT01)	08:48		15:54 (RHR_WT02)
	21:45			20:50	34	20:13 (SAM_WT05)	19:41			18:36	5	18:08 (MXS_WT01)	16:48	10	16:16 (RHR_WT01)	16:41	3	15:57 (RHR_WT02)
25	05:59			06:46		19:38 (SAM_WT05)	07:35			07:24		17:02 (MXS_WT01)	08:17		16:06 (RHR_WT01)	08:48		15:55 (RHR_WT02)
	21:44			20:48	34	20:12 (SAM_WT05)	19:39			17:34	3	17:05 (MXS_WT01)	16:47	9	16:15 (RHR_WT01)	16:42	2	15:57 (RHR_WT02)
26	06:00			06:47		19:39 (SAM_WT05)	07:36			07:26		17:01 (MXS_WT01)	08:18		16:06 (RHR_WT01)	08:49		
	21:42			20:46	33	20:12 (SAM_WT05)	19:37			17:32	2	17:03 (MXS_WT01)	16:46	8	16:14 (RHR_WT01)	16:43		
27	06:02			06:49		19:39 (SAM_WT05)	07:38			07:28			08:20		16:07 (RHR_WT01)	08:49		
	21:41			20:44	32	20:11 (SAM_WT05)	19:34			17:30			16:45	6	16:13 (RHR_WT01)	16:43		
28	06:03			06:51		19:39 (SAM_WT05)	07:39			07:29			08:21		16:07 (RHR_WT01)	08:49		
	21:39			20:42	30	20:09 (SAM_WT05)	19:32			17:28			16:44	5	16:12 (RHR_WT01)	16:44		
29	06:05			06:52		19:40 (SAM_WT05)	07:41			07:31			08:23		16:08 (RHR_WT01)	08:49		
	21:38			20:40	29	20:09 (SAM_WT05)	19:30			17:26			16:43	3	16:11 (RHR_WT01)	16:45		
30	06:06		21:06 (KLZ_WT20)	06:54		19:40 (SAM_WT05)	07:43			07:33			08:24		16:09 (RHR_WT01)	08:49		
	21:37	1	21:07 (KLZ_WT20)	20:37	27	20:07 (SAM_WT05)	19:27			17:24			16:43	2	16:11 (RHR_WT01)	16:46		
31	06:07		21:05 (KLZ_WT20)	06:55		19:38 (CBR_WT01)				07:35						08:49		
	21:35	1	21:06 (KLZ_WT20)	20:35	26	20:05 (SAM_WT05)				17:23						16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case		198			644			324			19			146			25	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,55			0,58			0,61			0,68			0,71			0,72	
Total reduction		0,24			0,27			0,26			0,24			0,19			0,16	
Total, real		48			171			83			5			27			4	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21			06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19			21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21			07:28			07:19			06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38			18:28			20:20			21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19			07:26			07:17			06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40			18:30			20:22			21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18			07:24			07:14			06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42			18:32			20:24			21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16			07:21			07:12			06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44			18:33			20:25			21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14			07:19			07:10			06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45			18:35			20:27			21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		20:01 (KLZ_WT15)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	2	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		20:01 (KLZ_WT15)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	4	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		20:02 (KLZ_WT15)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	4	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		20:03 (KLZ_WT15)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	5	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		20:04 (KLZ_WT15)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	3	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57			05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37			21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55			05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38			21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52			05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40			21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50			05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42			21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48			05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43			21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46			05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45			21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44			05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47			21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	302			7			138			56			763			1138		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,54			0,54			0,63			0,64			0,67			0,58		
Total reduction	0,13			0,16			0,23			0,29			0,30			0,25		
Total, real	39			1			32			16			226			286		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		20:01 (KLZ_WT15)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	6	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		20:00 (KLZ_WT15)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	4	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:59 (KLZ_WT15)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	4	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:58 (KLZ_WT15)	07:49	07:42			08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	2	20:00 (KLZ_WT15)	19:19	17:16			16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03			07:51	07:43			08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24			19:16	17:14			16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05			07:52	07:45			08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22			19:14	17:12			16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06			07:54	07:47			08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20			19:12	17:11			16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08			07:56	07:49			08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18			19:10	17:09			16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10			07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15			19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11			07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13			19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44			07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50			19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46			07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48			19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48			07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46			19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49			07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44			19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51			07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42			19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52			07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40			19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54			07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38			19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		20:04 (KLZ_WT15)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	3	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			363			156				312		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,97			0,97			0,97				0,97		
Wind dir. red.		0,62			0,67			0,62				0,54		
Total reduction		0,27			0,31			0,26				0,14		
Total, real		221			111			41				44		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	29	09:28 (RHR_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	34	06:40 (CBR_WT01)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	29	09:27 (RHR_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	34	06:41 (CBR_WT01)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	28	09:26 (RHR_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	34	06:40 (CBR_WT01)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	25	09:25 (RHR_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	36	06:40 (CBR_WT01)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	17	09:22 (RHR_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	36	06:41 (CBR_WT01)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	4	08:53 (MVZ_WT02)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	37	06:41 (CBR_WT01)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	37	06:41 (CBR_WT01)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	37	06:42 (CBR_WT01)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	36	06:41 (CBR_WT01)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	38	06:42 (CBR_WT01)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	37	06:42 (CBR_WT01)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	36	06:41 (CBR_WT01)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	37	06:42 (CBR_WT01)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	35	06:42 (CBR_WT01)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	35	06:42 (CBR_WT01)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	35	06:43 (CBR_WT01)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	34	06:43 (CBR_WT01)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	33	06:43 (CBR_WT01)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	33	06:44 (CBR_WT01)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	33	06:45 (CBR_WT01)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	24	06:37 (CBR_WT01)	22:05	34	06:45 (CBR_WT01)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	26	06:38 (CBR_WT01)	22:05	34	06:44 (CBR_WT01)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	27	09:30 (RHR_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	28	06:38 (CBR_WT01)	22:05	35	06:45 (CBR_WT01)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	27	09:29 (RHR_WT01)				20:12			21:03			21:47	29	06:39 (CBR_WT01)	22:05	35	06:46 (CBR_WT01)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	27	09:29 (RHR_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	31	06:40 (CBR_WT01)	22:04	37	06:46 (CBR_WT01)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	28	09:28 (RHR_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	32	06:40 (CBR_WT01)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		559			284			328			86			595			1047	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,55			0,55			0,61			0,67			0,70	
Total reduction		0,13			0,16			0,20			0,27			0,30			0,30	
Total, real		73			46			67			24			176			317	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	37	06:46 (CBR_WT01)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MVN_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	38	06:46 (CBR_WT01)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MVN_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	37	06:46 (CBR_WT01)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MVN_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42			08:30		09:21 (RHR_WT02)
	22:03	37	06:47 (CBR_WT01)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MVN_WT01)	17:16			16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	36	06:46 (CBR_WT01)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MVN_WT01)	17:14	5	08:23 (MVZ_WT02)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	37	06:47 (CBR_WT01)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MVN_WT01)	17:12	18	08:52 (RHR_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	36	06:47 (CBR_WT01)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MVN_WT01)	17:11	25	08:55 (RHR_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	35	06:47 (CBR_WT01)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	28	08:57 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	29	08:58 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	29	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	33	06:48 (CBR_WT01)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	28	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	32	06:48 (CBR_WT01)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	28	09:00 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	32	06:48 (CBR_WT01)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	26	09:01 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	31	06:48 (CBR_WT01)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	26	09:01 (RHR_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	29	06:48 (CBR_WT01)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	27	06:48 (CBR_WT01)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	25	06:47 (CBR_WT01)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	23	06:47 (CBR_WT01)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		791			222			109			468			526			582	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,64			0,60			0,55			0,54			0,54	
Total reduction		0,30			0,29			0,25			0,20			0,14			0,12	
Total, real		239			64			28			91			74			68	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	53	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	54	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:14 (KLZ_WT19)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	55	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:13 (KLZ_WT19)
	16:51	39	10:21 (ALB_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	56	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:14 (KLZ_WT19)
	16:53	35	10:20 (ALB_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	56	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:40 (CBR_WT01)	05:33		06:14 (KLZ_WT19)
	16:54	33	10:19 (ALB_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	20	07:00 (CBR_WT01)	21:56	55	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:40 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:55	27	10:17 (ALB_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	20	07:00 (CBR_WT01)	21:56	58	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:39 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:56	25	09:51 (RHR_WT03)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	20	06:59 (CBR_WT01)	21:57	58	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:58	25	09:52 (RHR_WT03)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	19	06:59 (CBR_WT01)	21:58	60	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:59	24	09:51 (RHR_WT03)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	18	06:58 (CBR_WT01)	21:59	60	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:41 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	17:00	24	09:51 (RHR_WT03)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	17	06:58 (CBR_WT01)	22:00	61	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	26	09:51 (RHR_WT03)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	16	06:56 (CBR_WT01)	22:00	60	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	26	09:52 (RHR_WT03)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	15	06:56 (CBR_WT01)	22:01	63	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	27	09:52 (RHR_WT03)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	12	06:53 (CBR_WT01)	22:01	62	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	28	09:51 (RHR_WT03)	18:00			18:49			20:40			21:28	8	06:51 (CBR_WT01)	22:02	61	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	28	09:51 (RHR_WT03)	18:02			18:50			20:42			21:30	5	06:26 (SAM_WT11)	22:03	63	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	27	09:50 (RHR_WT03)	18:04			18:52			20:43			21:31	7	06:29 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	26	09:49 (RHR_WT03)	18:05			18:54			20:45			21:33	16	06:34 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	25	09:48 (RHR_WT03)	18:07			18:55			20:47			21:34	20	06:37 (KLZ_WT19)	22:04	63	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	21	09:46 (RHR_WT03)	18:09			18:57			20:48			21:35	18	06:38 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	16	09:21 (RHR_WT02)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	21	06:40 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	16	09:21 (RHR_WT02)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	26	21:07 (KLZ_WT15)	22:05	64	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:16 (KLZ_WT19)	05:30		06:00 (SAM_WT07)
	17:19	16	09:22 (RHR_WT02)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	32	21:09 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	14	09:20 (RHR_WT02)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	35	21:10 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	37	21:11 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	40	21:12 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	44	21:13 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	45	21:14 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:15 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	47	21:16 (KLZ_WT15)	22:05	62	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:14 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	49	21:17 (KLZ_WT15)	22:04	61	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:14 (KLZ_WT19)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	51	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		685			250			158			316			747			1815	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,55			0,57			0,62			0,67			0,66	
Total reduction		0,13			0,16			0,21			0,28			0,30			0,28	
Total, real		89			41			33			89			224			515	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:52 (CBR_WT01)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	61	21:27 (KLZ_WT15)	21:34	15	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	24	09:33 (RHR_WT03)
2	05:35		06:04 (SAM_WT07)	06:11		06:51 (CBR_WT01)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	61	21:27 (KLZ_WT15)	21:32	17	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	24	09:34 (RHR_WT03)
3	05:35		06:05 (SAM_WT07)	06:12		06:50 (CBR_WT01)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	59	21:27 (KLZ_WT15)	21:30	19	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	25	09:35 (RHR_WT03)
4	05:36		06:06 (SAM_WT07)	06:14		06:49 (CBR_WT01)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	59	21:28 (KLZ_WT15)	21:29	20	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
5	05:37		06:07 (SAM_WT07)	06:15		06:50 (CBR_WT01)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	58	21:28 (KLZ_WT15)	21:27	19	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
6	05:38		06:20 (KLZ_WT19)	06:17		06:49 (CBR_WT01)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	56	21:28 (KLZ_WT15)	21:25	20	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	32	10:05 (ALB_WT01)
7	05:38		06:20 (KLZ_WT19)	06:18		06:50 (CBR_WT01)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	57	21:28 (KLZ_WT15)	21:24	20	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	35	10:07 (ALB_WT01)
8	05:39		06:21 (KLZ_WT19)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	55	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	38	10:09 (ALB_WT01)
9	05:40		06:21 (KLZ_WT19)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:21 (KLZ_WT19)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:22 (KLZ_WT19)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	52	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:22 (KLZ_WT19)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	52	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:23 (KLZ_WT19)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	50	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:23 (KLZ_WT19)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	48	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:23 (KLZ_WT19)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	47	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:24 (KLZ_WT19)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	43	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:24 (KLZ_WT19)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	42	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	38	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	14	08:54 (RHR_WT02)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	37	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	16	08:56 (RHR_WT02)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	33	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	16	08:56 (RHR_WT02)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	29	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	16	08:57 (RHR_WT02)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	24	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	21	09:22 (RHR_WT03)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	20	06:49 (KLZ_WT19)	20:53			19:44			18:38			16:49	25	09:24 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	19	06:48 (KLZ_WT19)	20:50			19:41			18:36			16:48	26	09:26 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	18	06:46 (KLZ_WT19)	20:48			19:39			17:34			16:47	27	09:28 (RHR_WT03)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	14	06:43 (KLZ_WT19)	20:46			19:37			17:32			16:46	27	09:29 (RHR_WT03)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	6	06:36 (SAM_WT11)	20:44			19:34			17:30			16:45	27	09:30 (RHR_WT03)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	5	06:37 (SAM_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	11	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	15	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	26	09:33 (RHR_WT03)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	15	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1194			305			263			245			462			1235	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,66			0,67			0,61			0,56			0,54			0,54	
Total reduction		0,29			0,30			0,26			0,20			0,14			0,12	
Total, real		346			92			67			48			65			147	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (ATS_WT01)	08:24			07:32		07:59 (ALB_WT01)	07:23			06:20		06:48 (KLZ_WT16)	05:37		06:40 (KLZ_WT16)
	16:48	8	09:40 (ATS_WT01)	17:35			18:25	5	08:04 (ALB_WT01)	20:17			21:06	12	07:00 (KLZ_WT16)	21:51	27	07:07 (KLZ_WT16)
2	08:50		09:33 (ATS_WT01)	08:23			07:30			07:21			06:18		06:45 (KLZ_WT16)	05:36		06:41 (KLZ_WT16)
	16:49	7	09:40 (ATS_WT01)	17:37			18:27			20:19			21:08	18	07:03 (KLZ_WT16)	21:52	26	07:07 (KLZ_WT16)
3	08:49		09:35 (ATS_WT01)	08:21			07:28			07:19			06:17		06:44 (KLZ_WT16)	05:35		06:41 (KLZ_WT16)
	16:50	4	09:39 (ATS_WT01)	17:38			18:28			20:20			21:10	21	07:05 (KLZ_WT16)	21:53	25	07:06 (KLZ_WT16)
4	08:49			08:19			07:26			07:17			06:15		06:42 (KLZ_WT16)	05:34		06:43 (KLZ_WT16)
	16:52			17:40			18:30			20:22			21:11	24	07:06 (KLZ_WT16)	21:54	24	07:07 (KLZ_WT16)
5	08:49			08:18			07:24			07:14			06:13		06:40 (KLZ_WT16)	05:34		06:43 (KLZ_WT16)
	16:53			17:42			18:32			20:24			21:13	27	07:07 (KLZ_WT16)	21:55	23	07:06 (KLZ_WT16)
6	08:49			08:16			07:22		07:44 (RHR_WT01)	07:12			06:11		06:40 (KLZ_WT16)	05:33		06:44 (KLZ_WT16)
	16:54			17:44			18:34	1	07:45 (RHR_WT01)	20:25			21:14	28	07:08 (KLZ_WT16)	21:56	22	07:06 (KLZ_WT16)
7	08:48			08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		06:34 (SAM_WT07)	05:33		06:44 (KLZ_WT16)
	16:55			17:46			18:35	2	07:44 (RHR_WT01)	20:27			21:16	32	07:09 (KLZ_WT16)	21:56	21	07:05 (KLZ_WT16)
8	08:48			08:13			07:17		07:40 (RHR_WT01)	07:08			06:08		06:32 (SAM_WT07)	05:32		06:45 (KLZ_WT16)
	16:56			17:47			18:37	2	07:42 (RHR_WT01)	20:29			21:18	33	07:09 (KLZ_WT16)	21:57	20	07:05 (KLZ_WT16)
9	08:48			08:11			07:15			07:06			06:06		06:37 (KLZ_WT16)	05:32		06:46 (KLZ_WT16)
	16:58			17:49			18:39			20:30			21:19	33	07:10 (KLZ_WT16)	21:58	18	07:04 (KLZ_WT16)
10	08:47			08:09			07:13			07:03			06:04		06:36 (KLZ_WT16)	05:31		06:47 (KLZ_WT16)
	16:59			17:51			18:40			20:32			21:21	34	07:10 (KLZ_WT16)	21:59	17	07:04 (KLZ_WT16)
11	08:46			08:08			07:11			07:01			06:03		06:36 (KLZ_WT16)	05:31		06:48 (KLZ_WT16)
	17:00			17:53			18:42			20:34			21:22	35	07:11 (KLZ_WT16)	22:00	16	07:04 (KLZ_WT16)
12	08:46			08:06			07:08		07:31 (MVN_WT01)	06:59			06:01		06:35 (KLZ_WT16)	05:30		06:49 (KLZ_WT16)
	17:02			17:55			18:44	1	07:32 (MVN_WT01)	20:35			21:24	36	07:11 (KLZ_WT16)	22:00	14	07:03 (KLZ_WT16)
13	08:45			08:04			07:06			06:57			06:00		06:35 (KLZ_WT16)	05:30		06:49 (KLZ_WT16)
	17:03			17:56			18:45			20:37			21:25	36	07:11 (KLZ_WT16)	22:01	13	07:02 (KLZ_WT16)
14	08:45			08:02			07:04			06:55			05:58		06:34 (KLZ_WT16)	05:30		06:50 (KLZ_WT16)
	17:05			17:58			18:47			20:39			21:27	37	07:11 (KLZ_WT16)	22:02	12	07:02 (KLZ_WT16)
15	08:44			08:00			07:02			06:53			05:57		06:34 (KLZ_WT16)	05:30		06:50 (KLZ_WT16)
	17:06			18:00			18:49			20:40			21:28	37	07:11 (KLZ_WT16)	22:02	12	07:02 (KLZ_WT16)
16	08:43			07:58			06:59			06:50		07:13 (KLZ_WT08)	05:55		06:35 (KLZ_WT16)	05:30		06:51 (KLZ_WT16)
	17:08			18:02			18:51			20:42	2	07:15 (KLZ_WT08)	21:30	37	07:12 (KLZ_WT16)	22:03	10	07:01 (KLZ_WT16)
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT08)	05:54		06:34 (KLZ_WT16)	05:30		06:52 (KLZ_WT16)
	17:09			18:04			18:52			20:43	4	07:15 (KLZ_WT08)	21:31	37	07:11 (KLZ_WT16)	22:03	9	07:01 (KLZ_WT16)
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT08)	05:52		06:34 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:11			18:05			18:54			20:45	5	07:14 (KLZ_WT08)	21:33	37	07:11 (KLZ_WT16)	22:03	8	07:01 (KLZ_WT16)
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT19)	05:51		06:35 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:13			18:07			18:56			20:47	6	07:13 (KLZ_WT08)	21:34	36	07:11 (KLZ_WT16)	22:04	7	07:00 (KLZ_WT16)
20	08:39			07:51			06:50			06:42		07:05 (KLZ_WT19)	05:50		06:35 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:14			18:09			18:57			20:48	6	07:11 (KLZ_WT08)	21:35	37	07:12 (KLZ_WT16)	22:04	7	07:00 (KLZ_WT16)
21	08:38			07:49			06:48			06:40		07:03 (KLZ_WT19)	05:48		06:35 (KLZ_WT16)	05:30		06:54 (KLZ_WT16)
	17:16			18:11			18:59			20:50	6	07:09 (KLZ_WT19)	21:37	37	07:12 (KLZ_WT16)	22:04	7	07:01 (KLZ_WT16)
22	08:37			07:47			06:46			06:38		07:01 (KLZ_WT19)	05:47		06:35 (KLZ_WT16)	05:30		06:54 (KLZ_WT16)
	17:17			18:13			19:01			20:52	8	07:09 (KLZ_WT19)	21:38	35	07:10 (KLZ_WT16)	22:05	7	07:01 (KLZ_WT16)
23	08:36			07:45			06:44			06:36		06:59 (KLZ_WT19)	05:46		06:35 (KLZ_WT16)	05:30		06:54 (KLZ_WT16)
	17:19			18:14			19:02			20:53	9	07:08 (KLZ_WT19)	21:40	35	07:10 (KLZ_WT16)	22:05	7	07:01 (KLZ_WT16)
24	08:35			07:43		08:06 (ALB_WT01)	06:41			06:34		06:57 (KLZ_WT19)	05:45		06:36 (KLZ_WT16)	05:31		06:54 (KLZ_WT16)
	17:21			18:16	2	08:08 (ALB_WT01)	19:04			20:55	10	07:07 (KLZ_WT19)	21:41	34	07:10 (KLZ_WT16)	22:05	8	07:02 (KLZ_WT16)
25	08:34			07:41		08:04 (ALB_WT01)	06:39			06:32		06:55 (KLZ_WT19)	05:43		06:36 (KLZ_WT16)	05:31		06:54 (KLZ_WT16)
	17:23			18:18	4	08:08 (ALB_WT01)	19:06			20:57	11	07:06 (KLZ_WT19)	21:42	34	07:10 (KLZ_WT16)	22:05	9	07:03 (KLZ_WT16)
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30		06:56 (KLZ_WT19)	05:42		06:36 (KLZ_WT16)	05:31		06:54 (KLZ_WT16)
	17:24			18:20	6	08:08 (ALB_WT01)	19:07			20:58	9	07:05 (KLZ_WT19)	21:43	33	07:09 (KLZ_WT16)	22:05	9	07:03 (KLZ_WT16)
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28		06:58 (KLZ_WT19)	05:41		06:37 (KLZ_WT16)	05:32		06:54 (KLZ_WT16)
	17:26			18:21	8	08:08 (ALB_WT01)	19:09			21:00	4	07:02 (KLZ_WT19)	21:45	32	07:09 (KLZ_WT16)	22:05	10	07:04 (KLZ_WT16)
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26			05:40		06:38 (KLZ_WT16)	05:32		06:53 (KLZ_WT16)
	17:28			18:23	9	08:06 (ALB_WT01)	19:11			21:01			21:46	32	07:10 (KLZ_WT16)	22:05	12	07:05 (KLZ_WT16)
29	08:28						07:30			06:24			05:39		06:39 (KLZ_WT16)	05:33		06:53 (KLZ_WT16)
	17:29						20:12			21:03			21:47	30	07:09 (KLZ_WT16)	22:05	13	07:06 (KLZ_WT16)
30	08:27						07:28			06:22			05:38		06:39 (KLZ_WT16)	05:33		06:52 (KLZ_WT16)
	17:31						20:14			21:05			21:48	29	07:08 (KLZ_WT16)	22:04	14	07:06 (KLZ_WT16)
31	08:26						07:26						05:37		06:39 (KLZ_WT16)			
	17:33						20:15						21:49	29	07:08 (KLZ_WT16)			
Potential sun hours	262			279			367			414			482			494		
Total, worst case		19			29			11			80			987			427	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,55			0,56			0,65			0,68			0,68	
Total reduction		0,13			0,16			0,21			0,29			0,30			0,29	
Total, real		2			5			2			23			297			125	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September	October			November	December		
1	05:34		06:52 (KLZ_WT16)	06:09		06:45 (KLZ_WT16)	06:57	07:45			07:37	08:26		
	22:04	15	07:07 (KLZ_WT16)	21:34	36	07:21 (KLZ_WT16)	20:33	19:26			17:21	16:42		
2	05:35		06:51 (KLZ_WT16)	06:11		06:46 (KLZ_WT16)	06:59	07:46		08:11 (MVN_WT01)	07:38	08:27		
	22:04	17	07:08 (KLZ_WT16)	21:32	35	07:21 (KLZ_WT16)	20:31	19:23	1	08:12 (MVN_WT01)	17:19	16:42		
3	05:35		06:51 (KLZ_WT16)	06:12		06:46 (KLZ_WT16)	07:00	07:48			07:40	08:29		
	22:04	18	07:09 (KLZ_WT16)	21:30	34	07:20 (KLZ_WT16)	20:29	19:21			17:18	16:41		
4	05:36		06:51 (KLZ_WT16)	06:14		06:47 (KLZ_WT16)	07:02	07:49			07:42	08:30		
	22:03	19	07:10 (KLZ_WT16)	21:29	33	07:20 (KLZ_WT16)	20:27	19:19			17:16	16:41		
5	05:37		06:51 (KLZ_WT16)	06:15		06:43 (SAM_WT07)	07:04	07:51			07:44	08:31		
	22:03	20	07:11 (KLZ_WT16)	21:27	32	07:19 (KLZ_WT16)	20:24	19:17			17:14	16:40		
6	05:38		06:50 (KLZ_WT16)	06:17		06:44 (SAM_WT07)	07:05	07:53		08:17 (RHR_WT01)	07:45	08:33		
	22:02	21	07:11 (KLZ_WT16)	21:25	31	07:18 (KLZ_WT16)	20:22	19:14	2	08:19 (RHR_WT01)	17:12	16:40		
7	05:39		06:49 (KLZ_WT16)	06:18		06:49 (KLZ_WT16)	07:07	07:54		08:19 (RHR_WT01)	07:47	08:34		
	22:02	23	07:12 (KLZ_WT16)	21:24	29	07:18 (KLZ_WT16)	20:20	19:12	2	08:21 (RHR_WT01)	17:11	16:39		
8	05:39		06:49 (KLZ_WT16)	06:20		06:50 (KLZ_WT16)	07:08	07:56			07:49	08:35		
	22:01	24	07:13 (KLZ_WT16)	21:22	26	07:16 (KLZ_WT16)	20:18	19:10			17:09	16:39		
9	05:40		06:49 (KLZ_WT16)	06:21		06:52 (KLZ_WT16)	07:10	07:58			07:51	08:36		09:23 (ATS_WT01)
	22:00	25	07:14 (KLZ_WT16)	21:20	23	07:15 (KLZ_WT16)	20:16	19:08			17:08	16:39	4	09:27 (ATS_WT01)
10	05:41		06:49 (KLZ_WT16)	06:23		06:53 (KLZ_WT16)	07:11	07:59			07:52	08:37		09:22 (ATS_WT01)
	22:00	25	07:14 (KLZ_WT16)	21:18	20	07:13 (KLZ_WT16)	20:13	19:06			17:06	16:38	7	09:29 (ATS_WT01)
11	05:42		06:48 (KLZ_WT16)	06:24		06:55 (KLZ_WT16)	07:13	08:01			07:54	08:38		09:22 (ATS_WT01)
	21:59	27	07:15 (KLZ_WT16)	21:16	17	07:12 (KLZ_WT16)	20:11	19:03			17:04	16:38	8	09:30 (ATS_WT01)
12	05:43		06:48 (KLZ_WT16)	06:26		06:58 (KLZ_WT16)	07:14	08:03			07:56	08:39		09:22 (ATS_WT01)
	21:58	28	07:16 (KLZ_WT16)	21:14	10	07:08 (KLZ_WT16)	20:09	19:01			17:03	16:38	9	09:31 (ATS_WT01)
13	05:44		06:48 (KLZ_WT16)	06:27			07:16	08:04		08:32 (ALB_WT01)	07:57	08:40		09:22 (ATS_WT01)
	21:57	29	07:17 (KLZ_WT16)	21:13			20:06	18:59	6	08:38 (ALB_WT01)	17:02	16:38	10	09:32 (ATS_WT01)
14	05:46		06:47 (KLZ_WT16)	06:29			07:18	08:06		08:31 (ALB_WT01)	07:59	08:41		09:22 (ATS_WT01)
	21:56	30	07:17 (KLZ_WT16)	21:11			20:04	18:57	8	08:39 (ALB_WT01)	17:00	16:38	10	09:32 (ATS_WT01)
15	05:47		06:47 (KLZ_WT16)	06:31			07:19	08:07		08:33 (ALB_WT01)	08:01	08:42		09:22 (ATS_WT01)
	21:56	31	07:18 (KLZ_WT16)	21:09			20:02	18:55	7	08:40 (ALB_WT01)	16:59	16:38	11	09:33 (ATS_WT01)
16	05:48		06:47 (KLZ_WT16)	06:32		07:05 (KLZ_WT19)	07:21	08:09		08:35 (ALB_WT01)	08:03	08:43		09:23 (ATS_WT01)
	21:55	31	07:18 (KLZ_WT16)	21:07	5	07:10 (KLZ_WT19)	20:00	18:53	6	08:41 (ALB_WT01)	16:57	16:38	11	09:34 (ATS_WT01)
17	05:49		06:46 (KLZ_WT16)	06:34		07:02 (KLZ_WT19)	07:22	08:11		08:36 (ALB_WT01)	08:04	08:44		09:23 (ATS_WT01)
	21:54	33	07:19 (KLZ_WT16)	21:05	10	07:12 (KLZ_WT19)	19:57	18:51	3	08:39 (ALB_WT01)	16:56	16:39	12	09:35 (ATS_WT01)
18	05:50		06:46 (KLZ_WT16)	06:35		07:02 (KLZ_WT19)	07:24	08:13		08:38 (ALB_WT01)	08:06	08:45		09:23 (ATS_WT01)
	21:53	33	07:19 (KLZ_WT16)	21:03	11	07:13 (KLZ_WT19)	19:55	18:48	1	08:39 (ALB_WT01)	16:55	16:39	12	09:35 (ATS_WT01)
19	05:51		06:46 (KLZ_WT16)	06:37		07:03 (KLZ_WT19)	07:25	08:14			08:08	08:45		09:24 (ATS_WT01)
	21:51	34	07:20 (KLZ_WT16)	21:01	10	07:13 (KLZ_WT19)	19:53	18:46			16:54	16:39	12	09:36 (ATS_WT01)
20	05:53		06:46 (KLZ_WT16)	06:38		07:05 (KLZ_WT19)	07:27	08:16			08:09	08:46		09:24 (ATS_WT01)
	21:50	35	07:21 (KLZ_WT16)	20:59	9	07:14 (KLZ_WT19)	19:51	18:44			16:52	16:40	13	09:37 (ATS_WT01)
21	05:54		06:46 (KLZ_WT16)	06:40		07:06 (KLZ_WT19)	07:29	08:18			08:11	08:47		09:24 (ATS_WT01)
	21:49	35	07:21 (KLZ_WT16)	20:57	7	07:13 (KLZ_WT19)	19:48	18:42			16:51	16:40	13	09:37 (ATS_WT01)
22	05:55		06:45 (KLZ_WT16)	06:42		07:08 (KLZ_WT19)	07:30	08:19			08:12	08:47		09:25 (ATS_WT01)
	21:48	36	07:21 (KLZ_WT16)	20:55	5	07:13 (KLZ_WT19)	19:46	18:40			16:50	16:40	13	09:38 (ATS_WT01)
23	05:57		06:45 (KLZ_WT16)	06:43		07:09 (KLZ_WT19)	07:32	08:21			08:14	08:48		09:25 (ATS_WT01)
	21:47	36	07:21 (KLZ_WT16)	20:53	6	07:15 (KLZ_WT08)	19:44	18:38			16:49	16:41	13	09:38 (ATS_WT01)
24	05:58		06:45 (KLZ_WT16)	06:45		07:11 (KLZ_WT08)	07:33	08:23			08:16	08:48		09:26 (ATS_WT01)
	21:45	37	07:22 (KLZ_WT16)	20:51	6	07:17 (KLZ_WT08)	19:41	18:36			16:48	16:42	12	09:38 (ATS_WT01)
25	05:59		06:45 (KLZ_WT16)	06:46		07:12 (KLZ_WT08)	07:35	07:24			08:17	08:48		09:27 (ATS_WT01)
	21:44	37	07:22 (KLZ_WT16)	20:48	5	07:17 (KLZ_WT08)	19:39	17:34			16:47	16:42	12	09:39 (ATS_WT01)
26	06:01		06:45 (KLZ_WT16)	06:48		07:14 (KLZ_WT08)	07:37	07:26			08:19	08:49		09:27 (ATS_WT01)
	21:43	37	07:22 (KLZ_WT16)	20:46	4	07:18 (KLZ_WT08)	19:37	17:32			16:46	16:43	12	09:39 (ATS_WT01)
27	06:02		06:45 (KLZ_WT16)	06:49		07:15 (KLZ_WT08)	07:38	07:28			08:20	08:49		09:28 (ATS_WT01)
	21:41	38	07:23 (KLZ_WT16)	20:44	2	07:17 (KLZ_WT08)	19:35	17:30			16:45	16:44	11	09:39 (ATS_WT01)
28	06:03		06:45 (KLZ_WT16)	06:51			07:40	07:30			08:22	08:49		09:28 (ATS_WT01)
	21:40	37	07:22 (KLZ_WT16)	20:42			19:32	17:29			16:44	16:44	11	09:39 (ATS_WT01)
29	06:05		06:45 (KLZ_WT16)	06:53			07:41	07:31			08:23	08:49		09:29 (ATS_WT01)
	21:38	37	07:22 (KLZ_WT16)	20:40			19:30	17:27			16:44	16:45	10	09:39 (ATS_WT01)
30	06:06		06:46 (KLZ_WT16)	06:54			07:43	07:33			08:25	08:50		09:29 (ATS_WT01)
	21:37	36	07:22 (KLZ_WT16)	20:38			19:28	17:25			16:43	16:46	11	09:40 (ATS_WT01)
31	06:08		06:46 (KLZ_WT16)	06:56				07:35				08:50		09:30 (ATS_WT01)
	21:35	36	07:22 (KLZ_WT16)	20:36				17:23				16:47	10	09:40 (ATS_WT01)
Potential sun hours	498			451			380	333			269	248		
Total, worst case		920			406				36				247	
Sun reduction		0,45			0,47				0,36				0,23	
Oper. time red.		0,97			0,97				0,97				0,97	
Wind dir. red.		0,68			0,67				0,55				0,53	
Total reduction		0,30			0,31				0,20				0,12	
Total, real		272			124				7				29	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (KLZ_WT19)	06:20		06:44 (SAM_WT06)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	11	07:57 (KLZ_WT19)	21:06	42	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:43 (KLZ_WT19)	06:18		06:42 (SAM_WT06)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	13	07:56 (KLZ_WT19)	21:08	42	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19		07:43 (KLZ_WT19)	06:17		07:07 (KLZ_WT15)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20	12	07:55 (KLZ_WT19)	21:10	40	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17		07:45 (KLZ_WT19)	06:15		07:07 (KLZ_WT15)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22	8	07:53 (KLZ_WT19)	21:11	39	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14			06:13		07:07 (KLZ_WT15)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24			21:13	38	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12			06:11		07:07 (KLZ_WT15)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25			21:14	38	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10			06:09		07:07 (KLZ_WT15)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27			21:16	37	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08			06:08		07:08 (KLZ_WT15)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29			21:18	35	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06			06:06		07:09 (KLZ_WT15)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30			21:19	34	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03			06:04		07:09 (KLZ_WT15)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32			21:21	33	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46			06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01			20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44			06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02			20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41			06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04			20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39			06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06			20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37			06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07			20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35			06:28		07:07 (KLZ_WT15)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09			21:00	40	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32		06:55 (KLZ_WT19)	06:26		07:08 (KLZ_WT15)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11	2	06:57 (KLZ_WT19)	21:01	40	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (KLZ_WT19)	06:24		07:07 (KLZ_WT15)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	5	07:57 (KLZ_WT19)	21:03	41	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (KLZ_WT19)	06:22		07:07 (KLZ_WT15)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	7	07:57 (KLZ_WT19)	21:05	40	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (KLZ_WT19)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	9	07:57 (KLZ_WT19)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case	156			655			49			528			555			20		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,55			0,55			0,61			0,64			0,64			0,71		
Total reduction	0,13			0,16			0,22			0,29			0,29			0,31		
Total, real	21			105			11			153			159			6		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December
1	05:34		06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1	06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35		06:04 (KLZ_WT17)	06:11		07:20 (KLZ_WT15)	06:59			07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1	06:05 (KLZ_WT17)	21:32	32	07:52 (KLZ_WT15)	20:31			19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35			06:12		07:19 (KLZ_WT15)	07:00			07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04			21:30	33	07:52 (KLZ_WT15)	20:29			19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36			06:14		07:19 (KLZ_WT15)	07:02			07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03			21:29	35	07:54 (KLZ_WT15)	20:27			19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37			06:15		07:18 (KLZ_WT15)	07:03			07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03			21:27	36	07:54 (KLZ_WT15)	20:24			19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38			06:17		07:17 (KLZ_WT15)	07:05			07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02			21:25	37	07:54 (KLZ_WT15)	20:22			19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38			06:18		07:17 (KLZ_WT15)	07:07			07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02			21:24	38	07:55 (KLZ_WT15)	20:20			19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39			06:20		07:16 (KLZ_WT15)	07:08		07:39 (KLZ_WT19)	07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01			21:22	39	07:55 (KLZ_WT15)	20:18	8	07:47 (KLZ_WT19)	19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40			06:21		07:16 (KLZ_WT15)	07:10		07:38 (KLZ_WT19)	07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00			21:20	40	07:56 (KLZ_WT15)	20:16	11	07:49 (KLZ_WT19)	19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41			06:23		07:15 (KLZ_WT15)	07:11		07:36 (KLZ_WT19)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00			21:18	40	07:55 (KLZ_WT15)	20:13	13	07:49 (KLZ_WT19)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42			06:24		06:52 (SAM_WT06)	07:13		07:38 (KLZ_WT19)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59			21:16	42	07:56 (KLZ_WT15)	20:11	11	07:49 (KLZ_WT19)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43			06:26		06:53 (SAM_WT06)	07:14		07:39 (KLZ_WT19)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58			21:15	41	07:55 (KLZ_WT15)	20:09	10	07:49 (KLZ_WT19)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44			06:27		07:14 (KLZ_WT15)	07:16		07:41 (KLZ_WT19)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57			21:13	41	07:55 (KLZ_WT15)	20:06	8	07:49 (KLZ_WT19)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45			06:29		07:15 (KLZ_WT15)	07:18		07:42 (KLZ_WT19)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57			21:11	40	07:55 (KLZ_WT15)	20:04	5	07:47 (KLZ_WT19)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47			06:31		07:14 (KLZ_WT15)	07:19		07:44 (KLZ_WT19)	08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56			21:09	40	07:54 (KLZ_WT15)	20:02	2	07:46 (KLZ_WT19)	18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48			06:32		07:15 (KLZ_WT15)	07:21			08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55			21:07	39	07:54 (KLZ_WT15)	20:00			18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49			06:34		07:15 (KLZ_WT15)	07:22			08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54			21:05	38	07:53 (KLZ_WT15)	19:57			18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50			06:35		07:16 (KLZ_WT15)	07:24			08:13			08:06			08:45
	21:53			21:03	37	07:53 (KLZ_WT15)	19:55			18:48			16:55			16:39
19	05:51			06:37		07:16 (KLZ_WT15)	07:25			08:14			08:08			08:45
	21:51			21:01	36	07:52 (KLZ_WT15)	19:53			18:46			16:54			16:39
20	05:53			06:38		07:17 (KLZ_WT15)	07:27			08:16			08:09			08:46
	21:50			20:59	35	07:52 (KLZ_WT15)	19:51			18:44			16:52			16:40
21	05:54			06:40		07:17 (KLZ_WT15)	07:29			08:18			08:11			08:47
	21:49			20:57	33	07:50 (KLZ_WT15)	19:48			18:42			16:51			16:40
22	05:55			06:41		07:08 (SAM_WT07)	07:30			08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48			20:55	34	07:49 (KLZ_WT15)	19:46			18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57			06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47			20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58			06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45			20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59		07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3	07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01		07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12	07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02		07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16	07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03		07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20	07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05		07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23	07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06		07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26	07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08		07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28	07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498			451			380			333			269			248
Total, worst case		130			919			93			282			538		
Sun reduction		0,45			0,47			0,43			0,36			0,27		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,64			0,64			0,62			0,55			0,55		
Total reduction		0,28			0,29			0,26			0,19			0,14		
Total, real		37			269			24			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (KLZ_WT19)	06:20			05:37		
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	16	08:02 (KLZ_WT19)	21:06			21:51		
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (KLZ_WT19)	06:18			05:36		
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	18	08:01 (KLZ_WT19)	21:08			21:52		
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:43 (KLZ_WT19)	06:17			05:35		
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	18	08:01 (KLZ_WT19)	21:10			21:53		
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:43 (KLZ_WT19)	06:15			05:34		
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	17	08:00 (KLZ_WT19)	21:11			21:54		
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14		07:44 (KLZ_WT19)	06:13			05:34		
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24	15	07:59 (KLZ_WT19)	21:13			21:55		
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12		07:44 (KLZ_WT19)	06:11		06:36 (SAM_WT06)	05:33		
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25	12	07:56 (KLZ_WT19)	21:14	2	06:38 (SAM_WT06)	21:56		
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10		07:46 (KLZ_WT19)	06:09		06:34 (SAM_WT06)	05:32		
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27	8	07:54 (KLZ_WT19)	21:16	3	06:37 (SAM_WT06)	21:56		
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08			06:08		06:32 (SAM_WT06)	05:32		
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29			21:17	4	06:36 (SAM_WT06)	21:57		
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06			06:06		06:31 (SAM_WT06)	05:31		
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30			21:19	5	06:36 (SAM_WT06)	21:58		
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03			06:04		06:29 (SAM_WT06)	05:31		
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32			21:21	4	06:33 (SAM_WT06)	21:59		
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01			06:03			05:31		
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34			21:22			22:00		
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59			06:01			05:30		
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35			21:24			22:00		
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57			06:00			05:30		
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37			21:25			22:01		
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55			05:58			05:30		
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39			21:27			22:02		
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53			05:57			05:30		
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40			21:28			22:02		
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50			05:55			05:30		
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42			21:30			22:03		
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48			05:54			05:30		
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43			21:31			22:03		
18	08:41		09:09 (RHR_WT03)	07:55			06:55			06:46			05:52			05:30		
	17:11	13	09:23 (ALB_WT01)	18:05			18:54			20:45			21:33			22:03		
19	08:40		09:08 (RHR_WT03)	07:53			06:53			06:44			05:51			05:30		
	17:13	13	09:23 (ALB_WT01)	18:07			18:56			20:47			21:34			22:04		
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49			05:30		
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57			20:48			21:35			22:04		
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48			05:30		
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59			20:50			21:37			22:04		
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47			05:30		
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	1	07:09 (KLZ_WT10)	20:52	2	07:03 (SAM_WT07)	21:38			22:05		
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46			05:30		
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	3	07:09 (KLZ_WT10)	20:53	4	07:03 (SAM_WT07)	21:40			22:05		
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44			05:31		
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	5	07:09 (KLZ_WT10)	20:55	5	07:02 (SAM_WT07)	21:41			22:05		
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43			05:31		
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	6	07:07 (KLZ_WT10)	20:57	6	07:01 (SAM_WT07)	21:42			22:05		
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42			05:31		
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	2	07:04 (KLZ_WT10)	20:58	7	07:00 (SAM_WT07)	21:43			22:05		
27	08:31		08:57 (RHR_WT02)	07:36			06:35			06:28			05:41			05:32		
	17:26	3	09:00 (RHR_WT02)	18:21			19:09			21:00			21:45			22:05		
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT19)	06:26			05:40			05:32		
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	5	07:00 (KLZ_WT19)	21:01			21:46			22:05		
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (KLZ_WT19)	06:24			05:39			05:33		
	17:29	4	08:58 (RHR_WT02)				20:12	8	08:00 (KLZ_WT19)	21:03			21:47			22:05		
30	08:27						07:28		07:50 (KLZ_WT19)	06:22			05:38			05:33		
	17:31						20:14	11	08:01 (KLZ_WT19)	21:05			21:48			22:04		
31	08:26						07:26		07:48 (KLZ_WT19)				05:37					
	17:33						20:15	14	08:02 (KLZ_WT19)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		779			33			157			128			18				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,97			0,97			0,97			0,97			0,97				
Wind dir. red.		0,65			0,56			0,58			0,63			0,69				
Total reduction		0,16			0,16			0,22			0,29			0,30				
Total, real		122			5			34			37			5				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July		August			September			October			November			December		
1	05:34		06:09			06:57			07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04		21:34			20:33			19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35		06:11			06:59			07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04		21:32			20:31			19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35		06:12		06:40 (SAM_WT06)	07:00			07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04		21:30	5	06:45 (SAM_WT06)	20:29			19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36		06:14		06:41 (SAM_WT06)	07:02			07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03		21:29	4	06:45 (SAM_WT06)	20:27			19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37		06:15		06:43 (SAM_WT06)	07:03		07:43 (KLZ_WT19)	07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03		21:27	4	06:47 (SAM_WT06)	20:24	8	07:51 (KLZ_WT19)	19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38		06:17		06:44 (SAM_WT06)	07:05		07:40 (KLZ_WT19)	07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02		21:25	3	06:47 (SAM_WT06)	20:22	12	07:52 (KLZ_WT19)	19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38		06:18		06:46 (SAM_WT06)	07:07		07:39 (KLZ_WT19)	07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02		21:24	1	06:47 (SAM_WT06)	20:20	15	07:54 (KLZ_WT19)	19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39		06:20			07:08		07:37 (KLZ_WT19)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01		21:22			20:18	17	07:54 (KLZ_WT19)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40		06:21			07:10		07:37 (KLZ_WT19)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00		21:20			20:15	18	07:55 (KLZ_WT19)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41		06:23			07:11		07:36 (KLZ_WT19)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00		21:18			20:13	18	07:54 (KLZ_WT19)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42		06:24			07:13		07:38 (KLZ_WT19)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59		21:16			20:11	16	07:54 (KLZ_WT19)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43		06:26			07:14		07:39 (KLZ_WT19)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58		21:14			20:09	14	07:53 (KLZ_WT19)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44		06:27			07:16		07:41 (KLZ_WT19)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57		21:13			20:06	12	07:53 (KLZ_WT19)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45		06:29			07:18		07:42 (KLZ_WT19)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56		21:11			20:04	9	07:51 (KLZ_WT19)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47		06:31			07:19		07:44 (KLZ_WT19)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56		21:09			20:02	6	07:50 (KLZ_WT19)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48		06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55		21:07	3	07:05 (SAM_WT07)	20:00	1	07:46 (KLZ_WT19)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49		06:34		07:00 (SAM_WT07)	07:22			08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54		21:05	7	07:07 (SAM_WT07)	19:57			18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50		06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53		21:03	6	07:08 (SAM_WT07)	19:55	6	07:55 (KLZ_WT10)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51		06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51		21:01	5	07:08 (SAM_WT07)	19:53	5	07:55 (KLZ_WT10)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53		06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50		20:59	4	07:09 (SAM_WT07)	19:50	3	07:55 (KLZ_WT10)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54		06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49		20:57	2	07:08 (SAM_WT07)	19:48	1	07:54 (KLZ_WT10)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55		06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48		20:55			19:46			18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56		06:43			07:32			08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47		20:53			19:44			18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58		06:45			07:33			08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45		20:50			19:41			18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59		06:46			07:35			07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44		20:48			19:39			17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01		06:48			07:37			07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43		20:46			19:37			17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02		06:49			07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41		20:44			19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03		06:51			07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40		20:42			19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05		06:52			07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38		20:40			19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06		06:54			07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37		20:38			19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08		06:56						07:35						08:50		12:36 (KLZ_WT16)
	21:35		20:35						17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498		451			380			333			269			248		
Total, worst case				44			161			119			311			1476	
Sun reduction				0,47			0,43			0,36			0,27			0,23	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,67			0,63			0,56			0,60			0,68	
Total reduction				0,30			0,26			0,20			0,16			0,15	
Total, real				13			43			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		18:43 (KLZ_WT15)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	24	08:10 (KLZ_WT19)	21:06	75	19:55 (KLZ_WT15)	21:51	75	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		18:45 (KLZ_WT15)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	22	08:09 (KLZ_WT19)	21:08	76	19:56 (KLZ_WT15)	21:52	73	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (KLZ_WT19)	06:17		18:40 (KLZ_WT15)	05:35		18:45 (KLZ_WT15)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	20	08:08 (KLZ_WT19)	21:10	77	19:57 (KLZ_WT15)	21:53	73	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17		07:49 (KLZ_WT19)	06:15		18:39 (KLZ_WT15)	05:34		18:45 (KLZ_WT15)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	6	08:23 (KLZ_WT08)	20:22	18	08:07 (KLZ_WT19)	21:11	78	19:57 (KLZ_WT15)	21:54	72	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24			07:14		07:50 (KLZ_WT19)	06:13		18:38 (KLZ_WT15)	05:34		18:46 (KLZ_WT15)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32			20:24	16	08:06 (KLZ_WT19)	21:13	79	19:57 (KLZ_WT15)	21:55	72	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21			07:12		07:50 (KLZ_WT19)	06:11		18:39 (KLZ_WT15)	05:33		18:46 (KLZ_WT15)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33			20:25	13	08:03 (KLZ_WT19)	21:14	79	19:58 (KLZ_WT15)	21:56	71	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19			07:10		07:52 (KLZ_WT19)	06:09		18:38 (KLZ_WT15)	05:32		18:47 (KLZ_WT15)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35			20:27	9	08:01 (KLZ_WT19)	21:16	80	19:58 (KLZ_WT15)	21:56	71	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17			07:08			06:08		06:32 (SAM_WT06)	05:32		18:48 (KLZ_WT15)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37			20:29			21:17	81	19:57 (KLZ_WT15)	21:57	70	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15			07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		18:47 (KLZ_WT15)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39			20:30	1	07:29 (SAM_WT04)	21:19	83	19:58 (KLZ_WT15)	21:58	71	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13			07:03			06:04		06:29 (SAM_WT06)	05:31		18:48 (KLZ_WT15)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40			20:32			21:21	86	19:58 (KLZ_WT15)	21:59	70	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11			07:01			06:03		06:28 (SAM_WT06)	05:31		18:49 (KLZ_WT15)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42			20:34			21:22	86	19:58 (KLZ_WT15)	22:00	69	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08			06:59			06:01		06:26 (SAM_WT06)	05:30		18:48 (KLZ_WT15)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44			20:35			21:24	88	19:58 (KLZ_WT15)	22:00	70	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06			06:57		19:17 (KLZ_WT15)	06:00		06:25 (SAM_WT06)	05:30		18:49 (KLZ_WT15)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45			20:37	7	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	69	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04			06:55		19:09 (KLZ_WT15)	05:58		06:25 (SAM_WT06)	05:30		18:50 (KLZ_WT15)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47			20:38	23	19:32 (KLZ_WT15)	21:27	86	19:58 (KLZ_WT15)	22:02	68	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02			06:53		19:05 (KLZ_WT15)	05:56		18:38 (KLZ_WT15)	05:30		18:50 (KLZ_WT15)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49			20:40	31	19:36 (KLZ_WT15)	21:28	80	19:58 (KLZ_WT15)	22:02	68	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59			06:50		07:13 (SAM_WT11)	05:55		18:38 (KLZ_WT15)	05:30		18:50 (KLZ_WT15)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50			20:42	37	19:38 (KLZ_WT15)	21:30	81	19:59 (KLZ_WT15)	22:03	68	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57			06:48		07:11 (SAM_WT11)	05:54		18:38 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52			20:43	44	19:41 (KLZ_WT15)	21:31	80	19:58 (KLZ_WT15)	22:03	68	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		18:38 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	2	07:19 (KLZ_WT10)	20:45	48	19:43 (KLZ_WT15)	21:33	80	19:58 (KLZ_WT15)	22:03	68	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		18:55 (KLZ_WT15)	05:51		18:39 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	5	07:20 (KLZ_WT10)	20:47	49	19:44 (KLZ_WT15)	21:34	80	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		18:53 (KLZ_WT15)	05:49		18:39 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	7	07:20 (KLZ_WT10)	20:48	53	19:46 (KLZ_WT15)	21:35	80	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		18:51 (KLZ_WT15)	05:48		18:40 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	9	07:19 (KLZ_WT10)	20:50	56	19:47 (KLZ_WT15)	21:37	79	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		18:39 (KLZ_WT15)	05:30		18:52 (KLZ_WT15)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	9	07:18 (KLZ_WT10)	20:52	61	19:49 (KLZ_WT15)	21:38	79	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:10 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		18:40 (KLZ_WT15)	05:30		18:52 (KLZ_WT15)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	7	07:17 (KLZ_WT10)	20:53	65	19:50 (KLZ_WT15)	21:40	78	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41			06:34		06:57 (SAM_WT07)	05:44		18:40 (KLZ_WT15)	05:31		18:52 (KLZ_WT15)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04			20:55	69	19:51 (KLZ_WT15)	21:41	78	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT19)	06:32		06:55 (SAM_WT07)	05:43		18:40 (KLZ_WT15)	05:31		18:53 (KLZ_WT15)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	3	07:04 (KLZ_WT19)	20:57	73	19:51 (KLZ_WT15)	21:42	78	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT19)	06:30		06:53 (SAM_WT07)	05:42		18:41 (KLZ_WT15)	05:31		18:52 (KLZ_WT15)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	8	07:07 (KLZ_WT19)	20:58	76	19:52 (KLZ_WT15)	21:43	77	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (KLZ_WT19)	06:28		06:51 (SAM_WT07)	05:41		18:41 (KLZ_WT15)	05:32		18:53 (KLZ_WT15)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	12	07:09 (KLZ_WT19)	21:00	79	19:53 (KLZ_WT15)	21:45	77	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (KLZ_WT19)	06:26		06:51 (SAM_WT07)	05:40		18:42 (KLZ_WT15)	05:32		18:53 (KLZ_WT15)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	15	07:10 (KLZ_WT19)	21:01	80	19:54 (KLZ_WT15)	21:46	76	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (KLZ_WT19)	06:24		06:53 (SAM_WT07)	05:39		18:43 (KLZ_WT15)	05:33		18:53 (KLZ_WT15)
	17:29	3	08:57 (RHR_WT01)				20:12	18	08:10 (KLZ_WT19)	21:03	78	19:55 (KLZ_WT15)	21:47	75	19:58 (KLZ_WT15)	22:05	69	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (KLZ_WT19)	06:22		18:41 (KLZ_WT15)	05:38		18:43 (KLZ_WT15)	05:33		18:53 (KLZ_WT15)
	17:31	5	08:58 (RHR_WT01)				20:14	20	08:10 (KLZ_WT19)	21:05	74	19:55 (KLZ_WT15)	21:48	75	19:58 (KLZ_WT15)	22:04	69	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		18:43 (KLZ_WT15)			
	17:33	6	08:57 (RHR_WT01)				20:15	22	08:10 (KLZ_WT19)				21:49	75	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			187			1126			2469			2084	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,55			0,60			0,60			0,59			0,59	
Total reduction		0,17			0,16			0,22			0,27			0,26			0,25	
Total, real		186			31			42			303			650			531	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		18:53 (KLZ_WT15)	06:09		06:37 (SAM_WT06)	06:57			07:44			07:37			08:26		09:00 (RHR_WT03)
	22:04	69	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33			19:25			17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		18:52 (KLZ_WT15)	06:11		06:39 (SAM_WT06)	06:59			07:46			07:38			08:27		09:00 (RHR_WT03)
	22:04	70	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31			19:23			17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		18:53 (KLZ_WT15)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48			07:40			08:29		09:00 (RHR_WT03)
	22:04	70	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	1	07:27 (SAM_WT04)	19:21			17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		18:53 (KLZ_WT15)	06:14		06:41 (SAM_WT06)	07:02			07:49			07:42			08:30		09:02 (RHR_WT03)
	22:03	70	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27			19:19			17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		18:53 (KLZ_WT15)	06:15		06:43 (SAM_WT06)	07:03		07:49 (KLZ_WT19)	07:51			07:44			08:31		09:03 (RHR_WT03)
	22:03	71	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24	9	07:58 (KLZ_WT19)	19:16			17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		18:52 (KLZ_WT15)	06:17		18:48 (KLZ_WT15)	07:05		07:46 (KLZ_WT19)	07:53			07:45			08:33		09:04 (RHR_WT03)
	22:02	72	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22	13	07:59 (KLZ_WT19)	19:14			17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		18:52 (KLZ_WT15)	06:18		18:48 (KLZ_WT15)	07:07		07:45 (KLZ_WT19)	07:54			07:47			08:34		09:06 (RHR_WT03)
	22:02	72	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20	16	08:01 (KLZ_WT19)	19:12			17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		18:52 (KLZ_WT15)	06:20		18:48 (KLZ_WT15)	07:08		07:43 (KLZ_WT19)	07:56			07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	73	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18	18	08:01 (KLZ_WT19)	19:10			17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		18:52 (KLZ_WT15)	06:21		18:49 (KLZ_WT15)	07:10		07:42 (KLZ_WT19)	07:58			07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	73	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	20	08:02 (KLZ_WT19)	19:08			17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		18:52 (KLZ_WT15)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	73	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	22	08:02 (KLZ_WT19)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		18:52 (KLZ_WT15)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	74	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	24	08:02 (KLZ_WT19)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		18:52 (KLZ_WT15)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	74	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	22	08:01 (KLZ_WT19)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		18:52 (KLZ_WT15)	06:27		18:49 (KLZ_WT15)	07:16		07:41 (KLZ_WT19)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	74	20:06 (KLZ_WT15)	21:13	74	20:03 (KLZ_WT15)	20:06	20	08:01 (KLZ_WT19)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		18:51 (KLZ_WT15)	06:29		07:00 (SAM_WT07)	07:18		07:42 (KLZ_WT19)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	76	20:07 (KLZ_WT15)	21:11	78	20:02 (KLZ_WT15)	20:04	18	08:00 (KLZ_WT19)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		18:51 (KLZ_WT15)	06:30		06:57 (SAM_WT07)	07:19		07:44 (KLZ_WT19)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	76	20:07 (KLZ_WT15)	21:09	81	20:01 (KLZ_WT15)	20:02	15	07:59 (KLZ_WT19)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		18:51 (KLZ_WT15)	06:32		06:59 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	76	20:07 (KLZ_WT15)	21:07	78	20:00 (KLZ_WT15)	20:00	12	07:57 (KLZ_WT19)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		18:51 (KLZ_WT15)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT19)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	76	20:07 (KLZ_WT15)	21:05	76	19:59 (KLZ_WT15)	19:57	9	07:56 (KLZ_WT19)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		18:50 (KLZ_WT15)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT19)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	77	20:07 (KLZ_WT15)	21:03	72	19:58 (KLZ_WT15)	19:55	4	07:53 (KLZ_WT19)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		18:50 (KLZ_WT15)	06:37		07:03 (SAM_WT07)	07:25			08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	77	20:07 (KLZ_WT15)	21:01	68	19:56 (KLZ_WT15)	19:53			18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		18:50 (KLZ_WT15)	06:38		07:05 (SAM_WT07)	07:27		07:57 (KLZ_WT10)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	79	20:09 (KLZ_WT15)	20:59	64	19:55 (KLZ_WT15)	19:50	6	08:03 (KLZ_WT10)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		18:50 (KLZ_WT15)	06:40		18:54 (KLZ_WT15)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	78	20:08 (KLZ_WT15)	20:57	59	19:53 (KLZ_WT15)	19:48	9	08:04 (KLZ_WT10)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		18:50 (KLZ_WT15)	06:41		18:56 (KLZ_WT15)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	78	20:08 (KLZ_WT15)	20:55	56	19:52 (KLZ_WT15)	19:46	10	08:05 (KLZ_WT10)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		18:49 (KLZ_WT15)	06:43		18:57 (KLZ_WT15)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	79	20:08 (KLZ_WT15)	20:53	52	19:49 (KLZ_WT15)	19:44	8	08:04 (KLZ_WT10)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		18:50 (KLZ_WT15)	06:45		18:59 (KLZ_WT15)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	79	20:09 (KLZ_WT15)	20:50	49	19:48 (KLZ_WT15)	19:41	6	08:04 (KLZ_WT10)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		18:49 (KLZ_WT15)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	80	20:09 (KLZ_WT15)	20:48	47	19:45 (KLZ_WT15)	19:39	3	08:03 (KLZ_WT10)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		18:49 (KLZ_WT15)	06:48		07:14 (SAM_WT11)	07:36			07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	80	20:09 (KLZ_WT15)	20:46	43	19:43 (KLZ_WT15)	19:37			17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		18:48 (KLZ_WT15)	06:49		07:15 (SAM_WT11)	07:38			07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	80	20:08 (KLZ_WT15)	20:44	37	19:40 (KLZ_WT15)	19:35			17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		18:49 (KLZ_WT15)	06:51		19:07 (KLZ_WT15)	07:40			07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	80	20:09 (KLZ_WT15)	20:42	30	19:37 (KLZ_WT15)	19:32			17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		18:48 (KLZ_WT15)	06:52		19:10 (KLZ_WT15)	07:41			07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	81	20:09 (KLZ_WT15)	20:40	22	19:32 (KLZ_WT15)	19:30			17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:35 (SAM_WT06)	06:54		19:19 (KLZ_WT15)	07:43			07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	86	20:08 (KLZ_WT15)	20:38	5	19:24 (KLZ_WT15)	19:28			17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (SAM_WT06)	06:56						07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35						17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		2361			1952			265			210			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59			0,59			0,62			0,56			0,70			0,68	
Total reduction		0,26			0,27			0,26			0,20			0,18			0,15	
Total, real		609			526			69			41			99			260	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

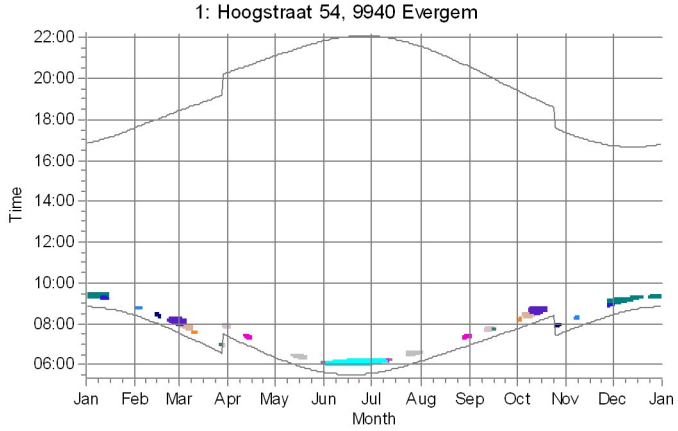
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09/04/2026 03:07/4.1.264

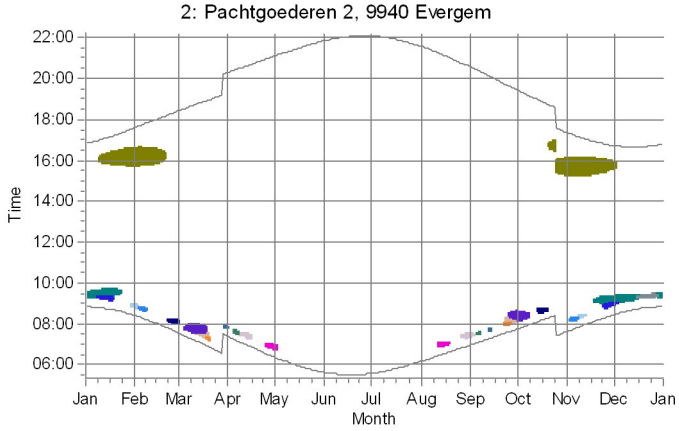
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

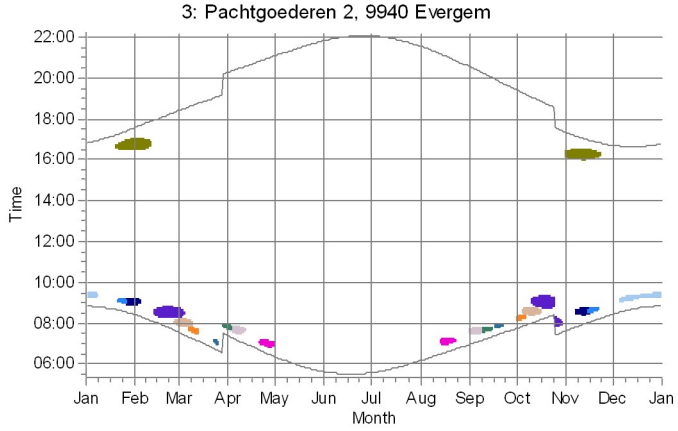
1: Hoogstraat 54, 9940 Evergem



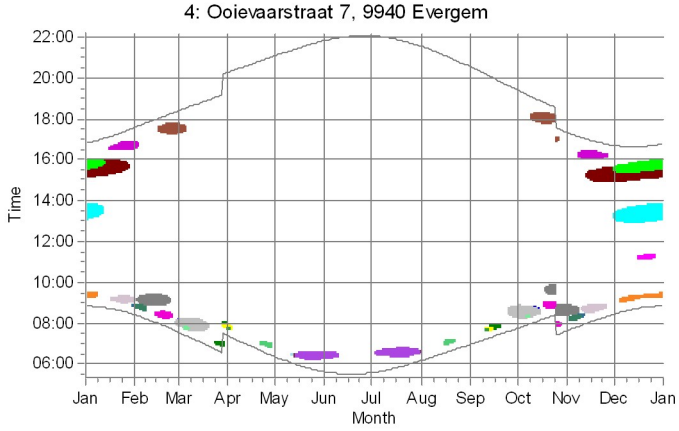
2: Pachtgoederen 2, 9940 Evergem



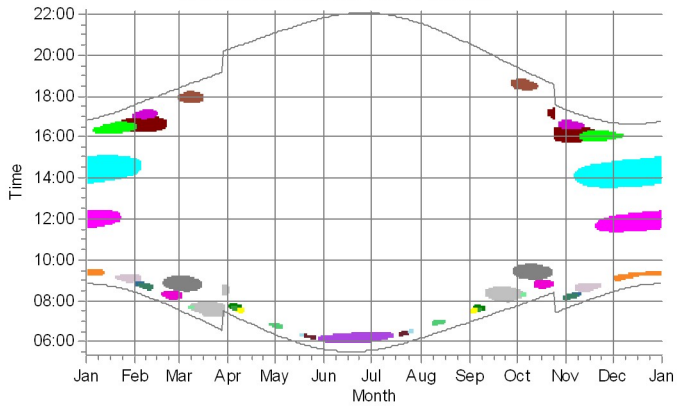
3: Pachtgoederen 2, 9940 Evergem



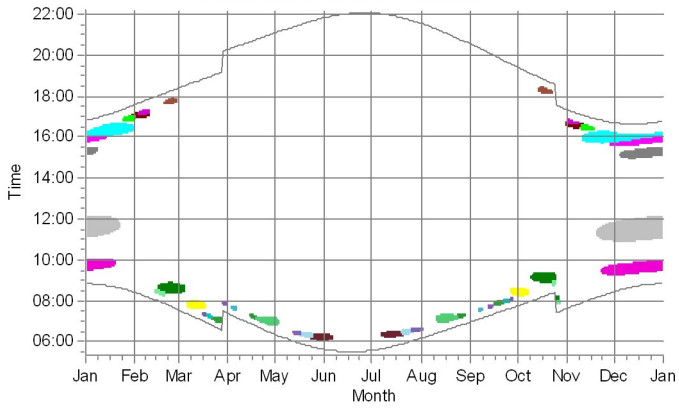
4: Ooievaarstraat 7, 9940 Evergem



5: Speidamstraat 58, 9940 Evergem



6: Rimewegel 46, 9940 Evergem



WTGs

KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)
EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)
EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

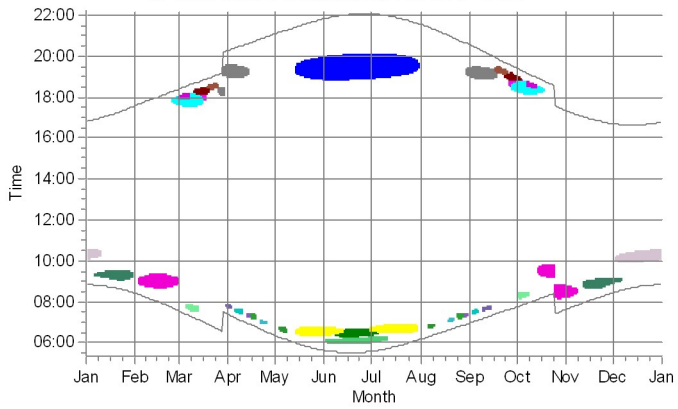
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Calculated:
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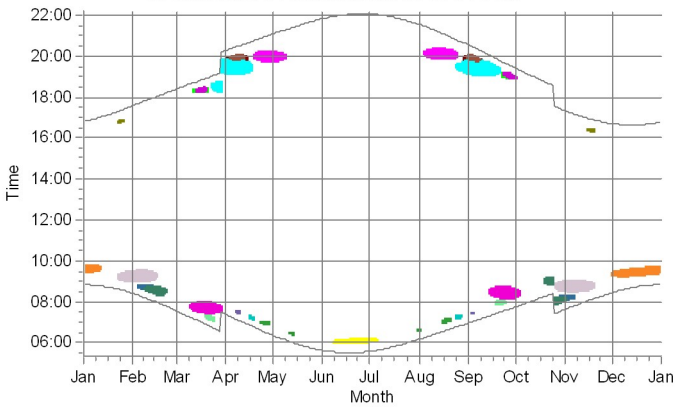
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

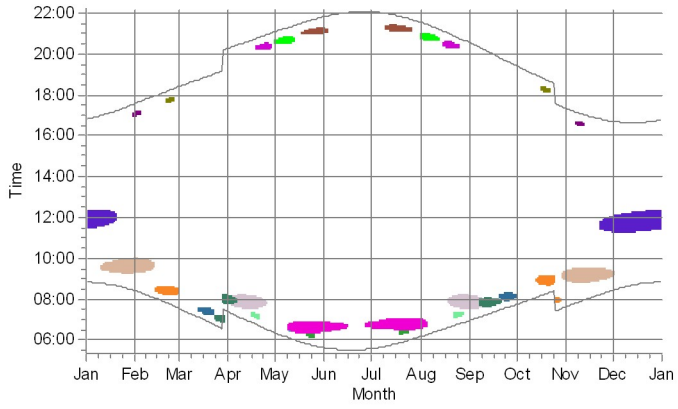
7: Christoffel Columbuslaan 23, 9042 Gent



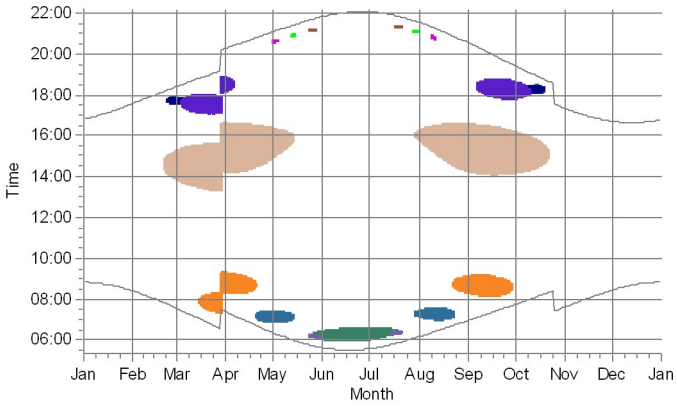
8: Christoffel Columbuslaan 23, 9042 Gent



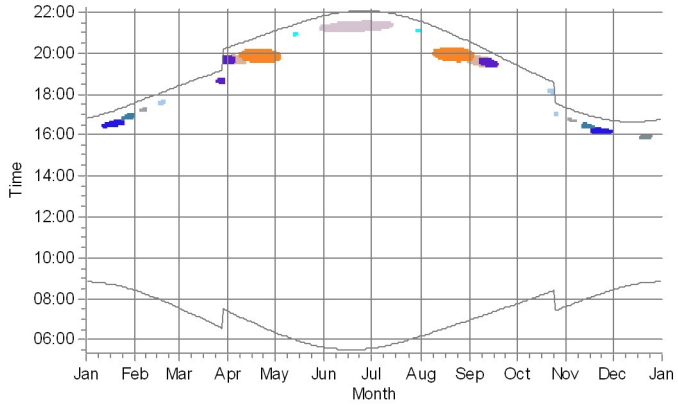
9: Willem van Rubroeckstraat 2, 9042 Gent



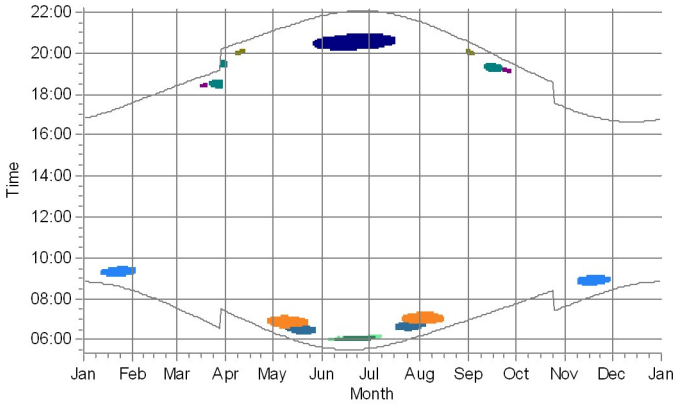
10: Arbedkaai 3, 9042 Gent



11: Schuitstraat 1, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

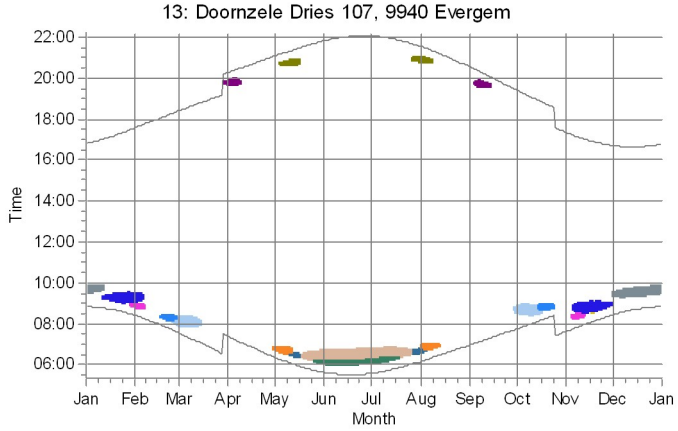
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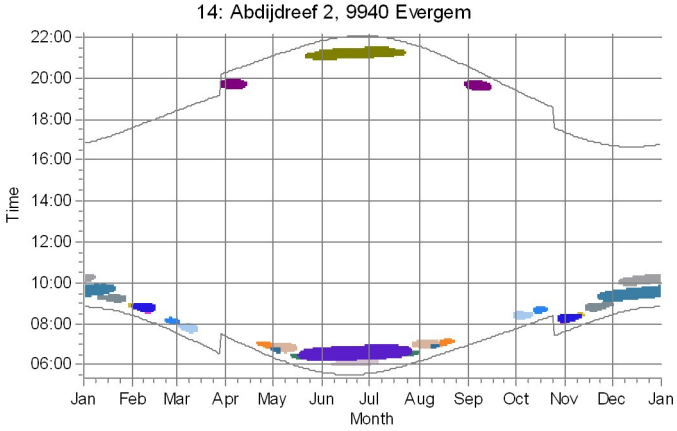
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

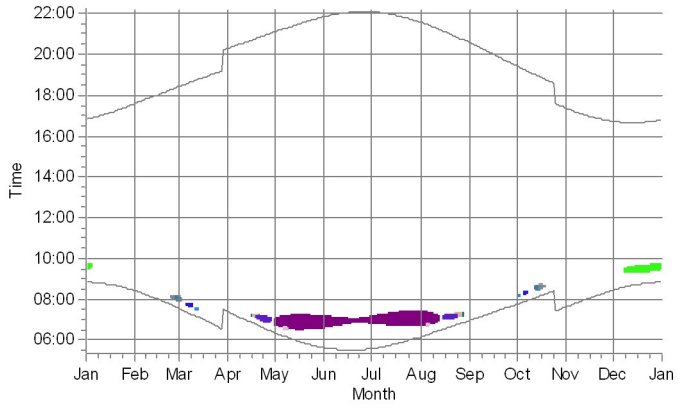
13: Doornzele Dries 107, 9940 Evergem



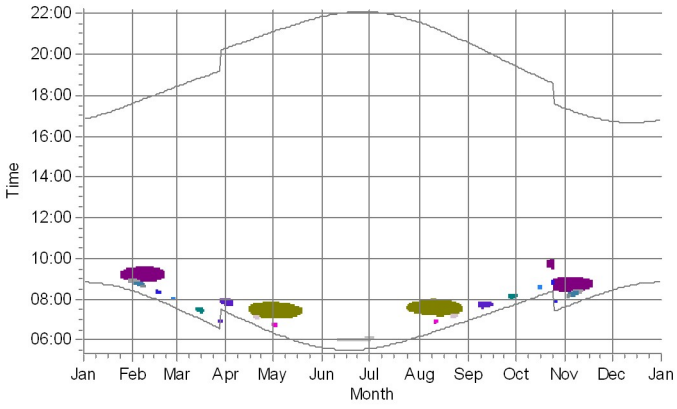
14: Abdijdreef 2, 9940 Evergem



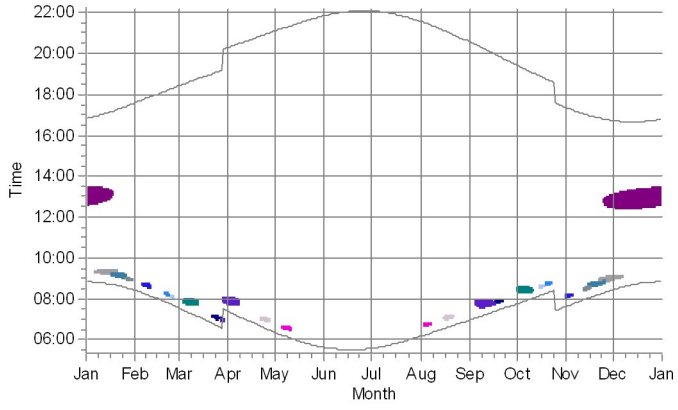
15: Hageland 41, 9940 Evergem



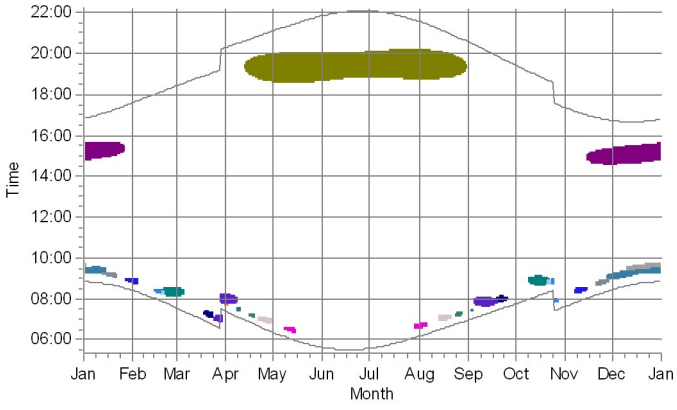
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

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SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April	May	June
1	08:49	09:37-09:40/3	08:24	08:50-08:54/4	07:32	07:59-08:04/5	07:23	06:20	05:37
	16:48	10:05-10:22/17	17:35		18:25		20:17	21:06	21:50
2	08:49	10:07-10:22/15	08:22	08:48-08:54/6	07:30		07:21	06:18	05:36
	16:49		17:36		18:26		20:19	21:08	21:51
3	08:49	10:07-10:21/14	08:21	08:46-08:53/7	07:28		07:19	06:16	05:35
	16:50		17:38		18:28		20:20	21:09	21:53
4	08:49	10:08-10:21/13	08:19	08:46-08:53/7	07:26		07:17	06:15	05:34
	16:51		17:40		18:30		20:22	21:11	21:54
5	08:49	10:10-10:20/10	08:18	17:12-17:13/1	07:24		07:14	06:13	05:34
	16:53		17:42		18:32		20:24	21:13	21:54
6	08:49	10:11-10:19/8	08:16	17:12-17:15/3	07:21		07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48	09:18-09:20/2	08:14	17:13-17:17/4	07:19		07:10	06:09	05:32
	16:55	10:15-10:17/2	17:45		18:35		20:27	21:16	21:56
8	08:48	09:17-09:20/3	08:13		07:17		07:08	06:08	05:32
	16:56		17:47		18:37		20:29	21:17	21:57
9	08:47	09:17-09:21/4	08:11		07:15		07:05	06:06	05:31
	16:58		17:49		18:39		20:30	21:19	21:58
10	08:47	09:16-09:22/6	08:09		07:13		07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46	09:15-09:22/7	08:08		07:10		07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46	09:15-09:23/8	08:06		07:08		06:59	06:01	05:30
	17:02		17:55		18:44		20:35	21:24	22:00
13	08:45	09:14-09:23/9	08:04		07:06		06:57	06:00	05:30
	17:03		17:56		18:45		20:37	21:25	22:01
14	08:44	09:13-09:24/11	08:02		07:04		06:55	05:58	05:30
	17:05		17:58		18:47		20:38	21:27	22:01
15	08:44	09:12-09:24/12	08:00		07:02		06:52	05:56	05:30
	17:06		18:00		18:49		20:40	21:28	22:02
16	08:43	09:12-09:24/12	07:58		06:59		06:50	05:55	05:30
	17:08		18:02		18:50		20:42	21:30	22:02
17	08:42	09:12-09:24/12	07:56		06:57		06:48	05:54	05:30
	17:09		18:04		18:52		20:43	21:31	22:03
18	08:41	09:13-09:23/10	07:55		06:55		06:46	05:52	05:30
	17:11		18:05		18:54		20:45	21:32	22:03
19	08:40	09:15-09:23/8	07:53		06:53		06:44	05:51	05:30
	17:12		18:07		18:55		20:47	21:34	22:04
20	08:39	09:17-09:22/5	07:51		06:50		06:42	05:49	05:30
	17:14		18:09		18:57		20:48	21:35	22:04
21	08:38		07:49		06:48		06:40	05:48	05:30
	17:16		18:11		18:59		20:50	21:37	22:04
22	08:37		07:47		06:46		06:38	05:47	05:30
	17:17		18:12		19:00		20:52	21:38	22:04
23	08:36		07:45		06:44		06:36	05:46	05:30
	17:19		18:14		19:02		20:53	21:39	22:05
24	08:35		07:43	08:06-08:08/2	06:41		06:34	05:44	05:31
	17:21		18:16		19:04		20:55	21:41	22:05
25	08:33		07:40	08:04-08:08/4	06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32		07:38	08:02-08:08/6	06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31		07:36	08:00-08:08/8	06:35		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30		07:34	07:57-08:06/9	06:32		06:26	05:40	05:32
	17:28		18:23		19:10		21:01	21:46	22:05
29	08:28				07:30		06:24	05:39	05:33
	17:29				20:12		21:03	21:47	22:04
30	08:27	08:53-08:54/1			07:28		06:22	05:38	05:33
	17:31				20:14		21:05	21:48	22:04
31	08:25	08:51-08:54/3			07:25			05:37	
	17:33				20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	195		61		5		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40	16:45-16:47/2	08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	16:43-16:46/3	08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	16:42-16:44/2	08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12	16:42-16:43/1	16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02		07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:32-08:38/6	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:39/8	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:40/7	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:41/6	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11	08:36-08:39/3	08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12	08:38-08:39/1	08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	31		124		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December	
1	08:49 09:32-09:40/8	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26	
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42	
2	08:49 09:33-09:40/7	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27	
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42	
3	08:49 09:35-09:39/4	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29	
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41	
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30	
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41	
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31	
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40	
6	08:49	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33	
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40	
7	08:48	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34	
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39	
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35	
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39	
9	08:47	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36	09:23-09:27/4
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39	
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37	09:22-09:29/7
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38	
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38	09:22-09:30/8
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38	
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39	09:22-09:31/9
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38	
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40	09:22-09:32/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38	
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41	09:22-09:32/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38	
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42	09:22-09:33/11
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38	
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43	09:23-09:34/11
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38	
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44	09:23-09:35/12
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39	
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44	09:23-09:35/12
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39	
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45	09:24-09:36/12
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39	
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46	09:24-09:37/13
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40	
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46	09:24-09:37/13
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40	
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47	09:25-09:38/13
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40	
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47	09:25-09:38/13
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41	
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48	09:26-09:38/12
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42	
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48	09:27-09:39/12
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42	
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49	09:27-09:39/12
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43	
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49	09:28-09:39/11
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44	
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49	09:28-09:39/11
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44	
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49	09:29-09:39/10
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45	
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49	09:29-09:40/11
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46	
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49	09:30-09:40/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47	
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248	
Sum of minutes with flicker	19	0	0	0	0	0	0	0	0	0	0	247	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 09:22-09:57/35	07:32 13:53-15:15/82	07:23 07:46-08:01/15 14:16-16:35/139	06:20 06:44-06:58/14	05:36 06:13-06:40/27
	16:48	17:35	18:25 07:55-08:08/13	20:17 19:33-19:51/18	21:06 15:01-16:20/79	21:50
2	08:49	08:22 09:22-09:56/34	07:30 13:51-15:17/86	07:21 07:43-07:59/16 14:16-16:35/139	06:18 06:42-06:58/16	05:36 06:14-06:41/27
	16:49	17:36	18:26 07:53-08:09/16	20:19 19:32-19:52/20	21:08 15:04-16:19/75	21:51
3	08:49	08:21 09:22-09:56/34	07:28 13:49-15:19/90	07:19 07:44-07:57/13 14:16-16:35/139	06:16 06:41-07:00/19	05:35 06:14-06:40/26
	16:50	17:38	18:28 07:51-08:09/18	20:20 19:31-19:52/21	21:09 15:06-16:17/71	21:53
4	08:49	08:19 09:23-09:56/33	07:26 13:47-15:21/94	07:16 07:46-07:50/4 14:16-16:35/139	06:15 06:40-07:00/20	05:34 06:13-06:40/27
	16:51	17:40	18:30 07:49-08:09/20	20:22 19:31-19:53/22	21:11 15:10-16:17/67	21:54
5	08:49	08:18 09:23-09:55/32	07:24 13:44-15:21/97	07:14 19:30-19:52/22	06:13 06:40-06:59/19	05:33 06:14-06:41/27
	16:52	17:42	18:32 07:47-08:07/20	20:24 14:16-16:35/139	21:13 15:13-16:16/63	21:55
6	08:49	08:16 09:24-09:54/30	07:21 13:43-15:23/100	07:12 19:30-19:51/21	06:11 06:40-07:00/20	05:33 06:14-06:41/27
	16:54	17:44	18:33 07:44-08:07/23	20:25 14:16-16:34/138	21:14 15:16-16:14/58	21:55
7	08:48	08:14 09:25-09:53/28	07:19 13:41-15:24/103	07:10 19:30-19:51/21	06:09 06:40-07:00/20	05:32 06:14-06:41/27
	16:55	17:45	18:35 07:43-08:05/22	20:27 14:16-16:34/138	21:16 15:20-16:13/53	21:56
8	08:48	08:13 09:26-09:53/27	07:17 13:40-15:26/106 07:45-07:51/6	07:08 19:31-19:50/19	06:08 06:39-06:59/20	05:32 06:15-06:42/27
	16:56	17:47	18:37 07:54-08:04/10	20:28 14:16-16:34/138	21:17 15:23-16:11/48	21:57
9	08:47	08:11 09:28-09:51/23	07:15 13:38-15:26/108	07:05 19:32-19:49/17	06:06 06:40-06:59/19	05:31 06:15-06:41/26
	16:58	17:49	18:38	20:30 14:17-16:34/137	21:19 15:26-16:10/44	21:58
10	08:47	08:09 09:29-09:49/20	07:13 13:36-15:27/111	07:03 19:33-19:48/15	06:04 06:40-06:58/18	05:31 06:15-06:42/27
	16:59	17:51	18:40	20:32 14:17-16:34/137	21:20 15:30-16:08/38	21:59
11	08:46 09:31-09:35/4	08:08 09:31-09:47/16	07:10 13:35-15:28/113	07:01 19:34-19:45/11	06:03 06:41-06:58/17	05:31 06:16-06:42/26
	17:00	17:53	18:42	20:33 14:17-16:32/135	21:22 15:34-16:07/33	21:59
12	08:46 09:28-09:38/10	08:06 09:34-09:43/9	07:08 13:34-15:30/116	06:59 14:18-16:32/134	06:01 06:41-06:56/15	05:30 06:15-06:41/26
	17:02	17:54	18:44 07:31-07:35/4	20:35	21:24 15:38-16:04/26	22:00
13	08:45 09:27-09:41/14	08:04	07:06 13:32-15:30/118	06:57 14:19-16:32/133	05:59 06:43-06:56/13	05:30 06:15-06:42/27
	17:03	17:56	18:45 07:29-07:36/7	20:37	21:25 15:43-16:00/17	22:01
14	08:44 09:26-09:43/17	08:02	07:04 13:31-15:31/120	06:55 14:20-16:31/131	05:58 06:44-06:53/9	05:30 06:16-06:42/26
	17:05	17:58	18:47 07:26-07:36/10	20:38	21:27	22:01
15	08:44 09:25-09:44/19	08:00	07:01 13:30-15:31/121	06:52 14:21-16:31/130	05:56 06:47-06:51/4	05:30 06:16-06:42/26
	17:06	18:00	18:49 07:24-07:36/12	20:40	21:28	22:02
16	08:43 09:24-09:46/22	07:58	06:59 13:29-15:32/123	06:50 14:23-16:31/128	05:55	05:29 06:16-06:43/27
	17:08	18:02	18:50 07:22-07:36/14	20:42	21:30	22:02
17	08:42 09:23-09:47/24	07:56	06:57 13:27-15:32/125	06:48 07:11-07:13/2	05:53	05:29 06:17-06:43/26
	17:09	18:03	18:52 07:22-07:35/13	20:43 14:24-16:30/126	21:31	22:03
18	08:41 09:23-09:48/25	07:54	06:55 13:26-15:33/127	06:46 07:09-07:13/4	05:52 06:24-06:27/3	05:29 06:17-06:43/26
	17:11	18:05	18:54 07:22-07:33/11	20:45 14:26-16:30/124	21:32	22:03
19	08:40 09:22-09:50/28	07:53	06:53 13:25-15:34/129	06:44 07:07-07:12/5	05:51 06:21-06:31/10	05:29 06:17-06:43/26
	17:12	18:07	18:55 07:23-07:32/9	20:47 14:28-16:29/121	21:34	22:04
20	08:39 09:22-09:51/29	07:51	06:50 13:25-15:34/129	06:42 07:05-07:10/5	05:49 06:19-06:33/14	05:30 06:17-06:43/26
	17:14	18:09	18:57	20:48 14:30-16:29/119	21:35	22:04
21	08:38 09:21-09:51/30	07:49 14:21-14:48/27	06:48 13:23-15:34/131	06:40 14:32-16:28/116	05:48 06:17-06:33/16	05:30 06:17-06:43/26
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:21-09:52/31	07:47 14:15-14:53/38	06:46 13:22-15:34/132	06:38 14:34-16:27/113	05:47 06:16-06:35/19	05:30 06:18-06:44/26
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:21-09:53/32	07:45 14:11-14:58/47	06:43 13:22-15:35/133	06:36 14:37-16:27/110	05:46 06:16-06:36/20	05:30 06:18-06:44/26
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:20-09:53/33	07:42 14:07-15:02/55	06:41 13:20-15:34/134	06:34 14:39-16:26/107	05:44 06:15-06:36/21	05:30 06:18-06:44/26
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:20-09:54/34	07:40 14:04-15:05/61	06:39 13:20-15:35/135	06:32 14:42-16:25/103	05:43 06:15-06:37/22	05:31 06:19-06:45/26
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:21-09:55/34	07:38 14:01-15:08/67	06:37 13:19-15:35/136	06:30 14:45-16:24/99	05:42 06:14-06:37/23	05:31 06:19-06:45/26
	17:24	18:19 08:02-08:04/2	19:07	20:58	21:43	22:05
27	08:31 09:20-09:55/35	07:36 13:57-15:10/73	06:34 06:57-07:01/4	06:28 14:48-16:23/95	05:41 06:14-06:38/24	05:32 06:18-06:44/26
	17:26	18:21 08:00-08:07/7	19:09 13:19-15:36/137	21:00	21:45	22:05
28	08:30 09:21-09:56/35	07:34 13:55-15:13/78	06:32 06:55-07:02/7	06:26 14:51-16:22/91	05:40 06:13-06:38/25	05:32 06:19-06:45/26
	17:28	18:23 07:57-08:07/10	19:10 13:18-15:35/137	21:01	21:46	22:05
29	08:28 09:20-09:55/35		07:30 07:52-08:01/9 14:18-16:35/137	06:24 06:48-06:56/8	05:39 06:14-06:39/25	05:33 06:20-06:46/26
	17:29		20:12 19:41-19:46/5	21:03 14:55-16:22/87	21:47	22:05
30	08:27 09:21-09:56/35		07:28 07:50-08:01/11 14:17-16:35/138	06:22 06:46-06:57/11	05:38 06:14-06:40/26	05:33 06:19-06:46/27
	17:31		20:14 19:37-19:49/12	21:05 14:58-16:21/83	21:48	22:04
31	08:25 09:21-09:56/35		07:25 07:48-08:01/13 14:17-16:36/139		05:37 06:14-06:40/26	
	17:33		20:15 19:35-19:50/15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	561	786	3991	3958	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 19:33-19:44/11 20:33 14:17-16:32/135	07:44 14:12-16:09/117 19:25 08:09-08:15/6	07:36 08:58-09:20/22 17:21	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 19:31-19:46/15 20:31 14:15-16:31/136	07:46 14:13-16:08/115 19:23 08:11-08:13/2	07:38 08:57-09:21/24 17:19	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 19:30-19:47/17 20:29 14:15-16:32/137	07:48 14:14-16:06/112 19:21	07:40 08:55-09:22/27 17:17	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 19:28-19:47/19 20:27 14:13-16:31/138	07:49 14:15-16:05/110 19:19	07:42 08:54-09:23/29 17:16	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 19:27-19:48/21 20:24 14:13-16:31/138	07:51 14:16-16:03/107 08:23-08:27/4 19:16 08:32-08:39/7	07:43 08:54-09:24/30 17:14	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 19:26-19:47/21 20:22 14:12-16:30/138	07:52 14:17-16:01/104 08:20-08:28/8 19:14 08:29-08:41/12	07:45 08:53-09:25/32 17:12	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 19:26-19:48/22 20:20 14:11-16:30/139	07:54 14:18-16:00/102 19:12 08:19-08:42/23	07:47 08:53-09:26/33 17:11	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 14:10-16:29/139 20:18 19:25-19:47/22	07:56 14:20-15:58/98 19:10 08:21-08:43/22	07:49 08:53-09:26/33 17:09	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 14:10-16:29/139 20:15 19:26-19:47/21	07:57 14:20-15:56/96 19:08 08:22-08:43/21	07:50 08:52-09:27/35 17:07	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 14:09-16:28/139 20:13 19:25-19:45/20	07:59 14:22-15:54/92 19:05 08:24-08:43/19	07:52 08:52-09:27/35 17:06	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 14:09-16:28/139 20:11 19:26-19:44/18	08:01 14:24-15:52/88 19:03 08:26-08:43/17	07:54 08:53-09:28/35 17:04	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 14:08-16:27/139 20:09 19:26-19:42/16	08:02 14:25-15:49/84 19:01 08:28-08:42/14	07:56 08:52-09:27/35 17:03	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 14:09-16:27/138 20:06 19:28-19:40/12	08:04 14:27-15:47/80 18:59 08:29-08:41/12	07:57 08:52-09:27/35 17:01	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 14:08-16:26/138 20:04 19:30-19:37/7	08:06 14:29-15:45/76 18:57 08:31-08:40/9	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 18:55 08:33-08:38/5	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 07:09-07:14/5 20:52 14:33-16:32/119	07:32 14:08-16:18/130 19:43	08:21 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 07:11-07:16/5 20:50 14:31-16:33/122	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:12-07:16/4 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:16/2 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 14:24-16:32/128 20:44	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 14:23-16:33/130 20:42	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 17:28	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 19:30 08:06-08:17/11	07:31 17:26	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 19:28 08:08-08:16/8	07:33 09:03-09:14/11 17:25	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 19:38-19:40/2 20:35 14:18-16:32/134		07:35 09:00-09:17/17 17:23		08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3089	4419	1939	859	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: EAM_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:07-06:17/10	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35 06:07-06:17/10	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:09-06:17/8	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:09-06:16/7	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:11-06:15/4	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38 06:18-06:21/3	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39 06:17-06:23/6	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40 06:16-06:24/8	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41 06:16-06:25/9	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30	05:42 06:16-06:26/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43 06:15-06:26/11	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59 06:25-06:27/2	05:30	05:44 06:15-06:27/12	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45 06:15-06:27/12	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46 06:16-06:27/11	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47 06:17-06:28/11	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48 06:18-06:28/10	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:28/9	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29	05:51 06:20-06:28/8	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:17/1	05:29	05:52 06:21-06:27/6	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:16/2	05:29	05:53 06:23-06:28/5	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:47 06:13-06:17/4	05:30	05:55 06:24-06:27/3	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:12-06:18/6	05:30	05:56 06:25-06:27/2	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34	05:44 06:11-06:18/7	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43 06:10-06:18/8	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:09-06:18/9	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:08-06:18/10	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:18/11	05:32	06:03 06:32-06:35/3	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:18/12	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:18/12	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37 06:07-06:18/11		06:07 06:36-06:37/1	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	103	39	145	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: EAM_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:23/1	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:23/4	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52 06:18-06:24/6	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50 06:17-06:24/7	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:24/8	05:29	05:52 06:27-06:29/2	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:22/8	05:29	05:53 06:25-06:31/6	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:46 06:14-06:21/7	05:30	05:55 06:24-06:32/8	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45 06:16-06:20/4	05:30	05:56 06:25-06:33/8	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57 06:26-06:33/7	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59 06:28-06:34/6	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00 06:29-06:34/5	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:34/2	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:34/1	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	49	0	49	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: EAM_WT03 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:28/2	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:28/3	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:27/5	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:26/5	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:31-06:35/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:37/5	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:37/4	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06 06:34-06:38/4	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:38/2	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	19	0	19	1	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: EAM_WT05 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:40
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:39
6	08:49	08:16	07:21	07:12	06:11	05:32	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	247
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:50	08:24		07:32	17:54-17:59/5	07:23		06:20		05:36	21:06-21:13/7
	16:48	17:35		18:25	17:22-17:42/20	20:17		21:06		21:51	
2	08:50	08:23		07:30	17:51-18:01/10	07:21		06:18		05:36	21:08-21:13/5
	16:49	17:36		18:27	17:23-17:41/18	20:19		21:08		21:52	
3	08:50	08:21		07:28	17:50-18:03/13	07:19		06:16		05:35	
	16:50	17:38		18:28	17:25-17:39/14	20:20		21:10		21:53	
4	08:49	08:20		07:26	17:48-18:05/17	07:17	19:54-19:57/3	06:15		05:34	
	16:51	17:40		18:30	17:28-17:36/8	20:22		21:11		21:54	
5	08:49	08:18		07:24	17:47-18:06/19	07:14	19:53-19:58/5	06:13		05:34	
	16:53	17:42		18:32		20:24		21:13		21:55	
6	08:49	08:16		07:22	17:46-18:08/22	07:12	19:52-19:59/7	06:11		05:33	
	16:54	17:44		18:33		20:25		21:14		21:56	
7	08:48	08:15		07:19	17:46-18:10/24	07:10	19:51-20:01/10	06:09		05:32	
	16:55	17:45		18:35		20:27		21:16		21:57	
8	08:48	08:13		07:17	17:45-18:10/25	07:08	19:52-20:03/11	06:08		05:32	
	16:56	17:47		18:37		20:29		21:18		21:57	
9	08:48	08:11		07:15	17:46-18:10/24	07:06	19:52-20:05/13	06:06		05:31	
	16:58	17:49		18:39		20:30		21:19		21:58	
10	08:47	08:09		07:13	17:45-18:09/24	07:03	19:53-20:06/13	06:04		05:31	
	16:59	17:51		18:40		20:32		21:21		21:59	
11	08:47	08:08		07:11	17:45-18:08/23	07:01	19:53-20:03/10	06:03		05:31	
	17:00	17:53		18:42		20:34		21:22		22:00	
12	08:46	08:06		07:08	17:46-18:07/21	06:59	19:55-20:01/6	06:01		05:30	
	17:02	17:55		18:44		20:35		21:24		22:00	
13	08:45	08:04		07:06	17:47-18:06/19	06:57		05:59		05:30	
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:45	08:02		07:04	17:48-18:04/16	06:55		05:58		05:30	
	17:05	17:58		18:47		20:39		21:27		22:02	
15	08:44	08:00		07:02	17:50-18:02/12	06:53		05:56		05:30	
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	17:27-17:34/7	06:59		06:50		05:55		05:30	
	17:08	18:02		18:50		20:42		21:30		22:03	
17	08:42	07:57	17:25-17:36/11	06:57		06:48		05:54		05:29	
	17:09	18:04		18:52		20:43		21:31		22:03	
18	08:41	07:55	17:23-17:38/15	06:55		06:46		05:52	21:02-21:03/1	05:29	
	17:11	18:05		18:54		20:45		21:33		22:04	
19	08:40	07:53	17:22-17:40/18	06:53	18:29-18:31/2	06:44		05:51	21:02-21:04/2	05:30	
	17:12	18:07		18:56		20:47		21:34		22:04	
20	08:39	07:51	17:21-17:42/21	06:50	18:29-18:32/3	06:42		05:49	21:02-21:06/4	05:30	
	17:14	18:09		18:57		20:48		21:36		22:04	
21	08:38	07:49	17:21-17:44/23	06:48	18:27-18:33/6	06:40		05:48	21:01-21:06/5	05:30	
	17:16	18:11		18:59		20:50		21:37		22:04	
22	08:37	07:47	17:20-17:46/26	06:46	18:27-18:35/8	06:38		05:47	21:01-21:07/6	05:30	
	17:17	18:12		19:01		20:52		21:38		22:05	
23	08:36	07:45	17:20-17:48/28	06:44	18:28-18:37/9	06:36		05:46	21:01-21:09/8	05:30	
	17:19	18:14		19:02		20:53		21:40		22:05	
24	08:35	07:43	17:20-17:50/30	06:41	18:28-18:38/10	06:34		05:44	21:01-21:10/9	05:30	
	17:21	18:16		19:04		20:55		21:41		22:05	
25	08:34	07:41	17:20-17:52/32	06:39	18:30-18:36/6	06:32		05:43	21:01-21:11/10	05:31	
	17:22	18:18		19:06		20:57		21:42		22:05	
26	08:32	07:39	17:20-17:51/31	06:37		06:30		05:42	21:02-21:12/10	05:31	
	17:24	18:20		19:07		20:58		21:44		22:05	
27	08:31	07:36	17:21-17:45/24	06:35		06:28		05:41	21:02-21:13/11	05:32	
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34	17:21-17:43/22	06:32		06:26		05:40	21:02-21:14/12	05:32	
	17:28	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	21:04-21:16/12	05:33	
	17:29			20:12		21:03		21:47		22:05	
30	08:27			07:28		06:22		05:38	21:04-21:15/11	05:33	
	17:31			20:14		21:05		21:48		22:05	
31	08:26			07:26				05:37	21:05-21:14/9		
	17:33			20:15				21:50			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	288		378		78		110		12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34		06:09		06:57	19:53-20:03/10	07:45	18:25-18:46/21	07:37	08:26
	22:04		21:34		20:33		19:25		17:21	16:42
2	05:34		06:11		06:59	19:51-20:03/12	07:46	18:25-18:47/22	07:38	08:28
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35		06:12		07:00	19:50-20:03/13	07:48	18:23-18:46/23	07:40	08:29
	22:04		21:30		20:29		19:21		17:17	16:41
4	05:36		06:14		07:02	19:49-20:00/11	07:49	18:23-18:47/24	07:42	08:30
	22:03		21:29		20:27		19:19		17:16	16:40
5	05:37		06:15		07:03	19:49-19:58/9	07:51	18:22-18:47/25	07:44	08:32
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37		06:17		07:05	19:48-19:55/7	07:53	18:21-18:46/25	07:45	08:33
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38		06:18		07:07	19:48-19:54/6	07:54	18:22-18:45/23	07:47	08:34
	22:02		21:24		20:20		19:12		17:11	16:39
8	05:39		06:20		07:08	19:49-19:51/2	07:56	18:22-18:43/21	07:49	08:35
	22:01		21:22		20:18		19:10		17:09	16:39
9	05:40		06:21		07:10		07:58	18:22-18:40/18	07:51	08:36
	22:01		21:20		20:16		19:08		17:07	16:39
10	05:41	21:16-21:20/4	06:23		07:11		07:59	18:23-18:38/15	07:52	08:37
	22:00		21:18		20:13		19:05	18:01-18:12/11	17:06	16:38
11	05:42	21:15-21:21/6	06:24		07:13		08:01	18:24-18:36/12	07:54	08:39
	21:59		21:16		20:11		19:03	17:58-18:14/16	17:04	16:38
12	05:43	21:14-21:22/8	06:26		07:14		08:02	18:26-18:34/8	07:56	08:40
	21:58		21:15		20:09		19:01	17:57-18:16/19	17:03	16:38
13	05:44	21:13-21:23/10	06:27		07:16		08:04	18:29-18:31/2	07:57	08:41
	21:57		21:13		20:06		18:59	17:54-18:16/22	17:01	16:38
14	05:45	21:13-21:24/11	06:29		07:18		08:06	17:53-18:17/24	07:59	08:41
	21:57		21:11		20:04		18:57		17:00	16:38
15	05:46	21:12-21:24/12	06:30		07:19		08:07	17:53-18:22/29	08:01	08:42
	21:56		21:09		20:02		18:55		16:59	16:38
16	05:48	21:12-21:23/11	06:32		07:21		08:09	17:52-18:23/31	08:03	08:43
	21:55		21:07		20:00		18:53		16:57	16:38
17	05:49	21:11-21:22/11	06:34		07:22		08:11	17:51-18:22/31	08:04	08:44
	21:54		21:05		19:57		18:50		16:56	16:38
18	05:50	21:11-21:21/10	06:35		07:24	19:18-19:23/5	08:13	17:51-18:20/29	08:06	08:45
	21:53		21:03		19:55		18:48		16:55	16:39
19	05:51	21:11-21:20/9	06:37		07:25	19:16-19:26/10	08:14	17:51-18:18/27	08:08	08:45
	21:51		21:01		19:53		18:46		16:53	16:39
20	05:52	21:10-21:19/9	06:38		07:27	19:15-19:24/9	08:16	17:52-18:16/24	08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54	21:11-21:19/8	06:40		07:29	19:13-19:21/8	08:18	17:51-18:14/23	08:11	08:47
	21:49		20:57		19:48		18:42		16:51	16:40
22	05:55	21:11-21:17/6	06:41		07:30	19:13-19:20/7	08:19	17:52-18:12/20	08:12	08:47
	21:48		20:55		19:46		18:40		16:50	16:40
23	05:56	21:11-21:16/5	06:43		07:32	19:12-19:17/5	08:21	17:53-18:10/17	08:14	08:48
	21:47		20:53		19:44		18:38		16:49	16:41
24	05:58	21:11-21:14/3	06:45		07:33	19:13-19:15/2	08:23	17:54-18:08/14	08:16	08:48
	21:45		20:51		19:41		18:36		16:48	16:41
25	05:59	21:12-21:14/2	06:46		07:35		07:24	16:56-17:06/10	08:17	08:49
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00		06:48		07:36		07:26	16:59-17:04/5	08:19	08:49
	21:43		20:46		19:37		17:32		16:46	16:43
27	06:02		06:49		07:38		07:28		08:20	08:49
	21:41		20:44		19:35		17:30		16:45	16:43
28	06:03		06:51		07:40	18:32-18:41/9	07:30		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:05		06:52		07:41	18:30-18:44/14	07:31		08:23	08:50
	21:38		20:40		19:30		17:27		16:44	16:45
30	06:06		06:54		07:43	18:27-18:45/18	07:33		08:25	08:50
	21:37		20:38		19:28		17:25		16:43	16:46
31	06:08		06:56	19:55-20:01/6			07:35			08:50
	21:35		20:36				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	125		6		157		591		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 17:00-17:05/5	07:32 17:57-17:59/2	07:23	06:20 20:37-20:38/1	05:36
	16:48	17:35 16:38-16:50/12	18:25	20:17	21:06	21:51
2	08:50	08:23 16:59-17:07/8	07:30 17:57-18:01/4	07:21	06:18 20:38-20:40/2	05:36
	16:49	17:36 16:40-16:48/8	18:27	20:19	21:08	21:52
3	08:50	08:21 16:58-17:09/11	07:28 17:57-18:03/6	07:19	06:16 20:39-20:41/2	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49	08:20 16:58-17:11/13	07:26 17:58-18:05/7	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49	08:18 16:58-17:13/15	07:24 17:58-18:06/8	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49	08:16 16:57-17:15/18	07:22 18:00-18:05/5	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48	08:15 16:57-17:16/19	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:57
8	08:48	08:13 16:58-17:19/21	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:18	21:57
9	08:48	08:11 16:59-17:20/21	07:15	07:06	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09 16:59-17:17/18	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47	08:08 17:00-17:16/16	07:11	07:01	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46	08:06 17:01-17:15/14	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45	08:04 17:03-17:13/10	07:06 18:17-18:20/3	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45	08:02 17:07-17:09/2	07:04 18:16-18:22/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:39	21:27	22:02
15	08:44	08:00	07:02 18:16-18:24/8	06:53	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:33-16:35/2	07:58	06:59 18:16-18:26/10	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:32-16:37/5	07:57	06:57 18:16-18:27/11	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:32-16:39/7	07:55	06:55 18:17-18:28/11	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:32-16:41/9	07:53	06:53 18:19-18:26/7	06:44 20:17-20:20/3	05:51	05:30
	17:12	18:07	18:56	20:47	21:34	22:04
20	08:39 16:32-16:43/11	07:51	06:50	06:42 20:17-20:22/5	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:31-16:44/13	07:49	06:48	06:40 20:16-20:23/7	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:31-16:46/15	07:47	06:46	06:38 20:16-20:25/9	05:47	05:30
	17:17	18:12	19:01	20:52	21:38	22:05
23	08:36 16:31-16:48/17	07:45	06:44	06:36 20:16-20:26/10	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:32-16:50/18	07:43	06:41	06:34 20:16-20:28/12	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:31-16:51/20	07:41	06:39	06:32 20:17-20:29/12	05:43	05:31
	17:22	18:18	19:06	20:57	21:42	22:05
26	08:32 16:32-16:53/21	07:39	06:37	06:30 20:18-20:27/9	05:42	05:31
	17:24	18:20	19:07	20:58	21:44	22:05
27	08:31 16:32-16:52/20	07:36	06:35	06:28 20:21-20:24/3	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 16:33-16:53/20	07:34	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 16:33-16:52/19		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:35-16:52/17		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 17:01-17:03/2		07:26		05:37	
	17:33 16:36-16:51/15		20:15		21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	231	211	88	70	5	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:57-18:58/1	07:37	16:29-16:47/18	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46		07:38	16:28-16:50/22	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:28-16:48/20	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:27-16:46/19	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:27-16:44/17	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17		07:05		07:53		07:45	16:28-16:42/14	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18		07:07		07:54		07:47	16:28-16:41/13	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20		07:08		07:56	18:35-18:42/7	07:49	16:29-16:39/10	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:50-20:51/1	07:10		07:58	18:32-18:40/8	07:51	16:30-16:38/8	08:36
	22:00	21:20		20:16		19:08		17:07	16:10-16:19/9	16:39
10	05:41	06:23	20:48-20:50/2	07:11		07:59	18:32-18:38/6	07:52	16:31-16:36/5	08:37
	22:00	21:18		20:13		19:05		17:06	16:09-16:21/12	16:38
11	05:42	06:24	20:46-20:48/2	07:13		08:01	18:31-18:36/5	07:54	16:33-16:35/2	08:38
	21:59	21:16		20:11		19:03		17:04	16:07-16:23/16	16:38
12	05:43	06:26		07:14		08:02	18:30-18:33/3	07:56	16:06-16:23/17	08:40
	21:58	21:15		20:09		19:01		17:03		16:38
13	05:44	06:27		07:16		08:04		07:57	16:05-16:24/19	08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29		07:18		08:06		07:59	16:05-16:24/19	08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30		07:19		08:07		08:01	16:05-16:25/20	08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:27-20:32/5	07:21		08:09		08:03	16:05-16:26/21	08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:24-20:34/10	07:22		08:11		08:04	16:05-16:25/20	08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:23-20:35/12	07:24		08:13		08:06	16:06-16:24/18	08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:22-20:33/11	07:25		08:14		08:08	16:05-16:22/17	08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:22-20:32/10	07:27		08:16		08:09	16:06-16:21/15	08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:21-20:29/8	07:29		08:18		08:11	16:07-16:20/13	08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:21-20:28/7	07:30		08:19		08:12	16:08-16:19/11	08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:20-20:25/5	07:32		08:21		08:14	16:08-16:17/9	08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:21-20:24/3	07:33	19:04-19:08/4	08:23		08:16	16:09-16:16/7	08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46		07:35	19:00-19:10/10	07:24		08:17	16:10-16:15/5	08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48		07:37	18:59-19:10/11	07:26		08:19	16:11-16:14/3	08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49		07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51		07:40	18:57-19:05/8	07:30	16:35-16:40/5	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:32-16:43/11	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:56-19:00/4	07:33	16:30-16:45/15	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:29-16:46/17			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	76		53		78		399		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	07:45-07:51/6	06:20		05:36	06:24-06:41/17
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21	07:46-07:48/2	06:18		05:35	06:25-06:41/16
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	06:25-06:40/15
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:14		05:34	06:25-06:40/15
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	06:27-06:40/13
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12	07:34-07:36/2	06:11		05:33	06:27-06:39/12
	16:54	17:43	18:33		20:25		21:14		21:56	
7	08:48	08:14	07:19	07:44-07:53/9	07:10	07:32-07:37/5	06:09		05:32	06:28-06:39/11
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:42-07:55/13	07:08	07:30-07:36/6	06:07		05:32	06:00-06:02/2
	16:56	17:47	18:37		20:28		21:17		21:57	06:28-06:38/10
9	08:47	08:11	07:15	07:41-07:56/15	07:05	07:28-07:35/7	06:06		05:31	06:00-06:03/3
	16:57	17:49	18:38		20:30		21:19		21:58	06:29-06:38/9
10	08:47	08:09	07:13	07:39-07:56/17	07:03	07:30-07:33/3	06:04		05:31	06:00-06:04/4
	16:59	17:51	18:40		20:32		21:21		21:59	06:31-06:37/6
11	08:46	08:08	07:10	07:39-07:56/17	07:01		06:02		05:30	05:59-06:04/5
	17:00	17:53	18:42		20:33		21:22		22:00	06:31-06:36/5
12	08:46	08:06	07:08	07:39-07:56/17	06:59		06:01		05:30	05:59-06:05/6
	17:02	17:54	18:44		20:35		21:24		22:00	06:33-06:35/2
13	08:45	08:04	07:06	07:38-07:55/17	06:57		05:59		05:30	05:59-06:06/7
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:38-07:54/16	06:54		05:58	06:29-06:34/5	05:30	05:59-06:06/7
	17:04	17:58	18:47		20:38		21:27		22:01	
15	08:44	08:00	07:01	07:39-07:53/14	06:52		05:56	06:27-06:37/10	05:29	05:59-06:07/8
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:41-07:51/10	06:50		05:55	06:26-06:38/12	05:29	05:59-06:07/8
	17:07	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:44-07:46/2	06:48		05:53	06:24-06:39/15	05:29	05:59-06:07/8
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55		06:46		05:52	06:24-06:40/16	05:29	05:59-06:07/8
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:52		06:44		05:51	06:23-06:40/17	05:29	05:59-06:08/9
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50		06:42		05:49	06:23-06:41/18	05:29	05:59-06:08/9
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48		06:40		05:48	06:22-06:41/19	05:30	05:59-06:08/9
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	06:22-06:41/19	05:30	06:00-06:09/9
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43		06:36		05:45	06:22-06:41/19	05:30	06:00-06:09/9
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:43	06:41		06:34		05:44	06:22-06:42/20	05:30	06:00-06:09/9
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39		06:32		05:43	06:22-06:42/20	05:31	06:01-06:09/8
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:22-06:42/20	05:31	06:01-06:09/8
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:22-06:42/20	05:31	06:01-06:09/8
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:22-06:41/19	05:32	06:02-06:09/7
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	07:52-07:53/1	06:24		05:39	06:22-06:41/19	05:32	06:02-06:09/7
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	07:50-07:53/3	06:22		05:38	06:23-06:42/19	05:33	06:03-06:09/6
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	07:48-07:53/5			05:37	06:24-06:41/17		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	156		31		304		295	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:10/6	06:09	06:57	07:44 08:17-08:35/18	07:36	08:26
	22:04 06:37-06:41/4	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:09/5	06:10	06:59 07:28-07:31/3	07:46 08:17-08:35/18	07:38	08:27
	22:04 06:35-06:41/6	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:09/4	06:12	07:00 07:26-07:33/7	07:48 08:17-08:34/17	07:40	08:29
	22:04 06:35-06:43/8	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:09/3	06:13	07:02 07:27-07:33/6	07:49 08:17-08:33/16	07:42	08:30
	22:03 06:35-06:44/9	21:29	20:27	19:19	17:16	16:40
5	05:36 06:06-06:07/1	06:15	07:03 07:29-07:34/5	07:51 08:18-08:32/14	07:43	08:31
	22:03 06:33-06:44/11	21:27	20:24	19:16	17:14	16:40
6	05:37 06:33-06:45/12	06:16	07:05 07:30-07:33/3	07:52 08:19-08:30/11	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:33-06:46/13	06:18	07:06	07:54 08:21-08:28/7	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:33-06:47/14	06:19	07:08	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:33-06:48/15	06:21	07:10	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:33-06:48/15	06:23	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:32-06:49/17	06:24	07:13 07:38-07:44/6	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:32-06:49/17	06:26	07:14 07:39-07:44/5	08:02	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:32-06:50/18	06:27	07:16 07:41-07:44/3	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:32-06:50/18	06:29	07:17 07:42-07:43/1	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 06:32-06:51/19	06:30	07:19	08:07	08:01	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:32-06:51/19	06:32	07:21	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:31-06:51/20	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:31-06:51/20	06:35	07:24	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51 06:31-06:51/20	06:37	07:25	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:31-06:51/20	06:38	07:27	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 06:32-06:52/20	06:40	07:28	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 06:32-06:51/19	06:41	07:30	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:32-06:51/19	06:43	07:32	08:21	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:33-06:50/17	06:44	07:33	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:34-06:51/17	06:46	07:35	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:34-06:50/16	06:48	07:36	07:26	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02 06:35-06:49/14	06:49	07:38 08:24-08:32/8	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:37-06:48/11	06:51	07:40 08:21-08:33/12	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:38-06:46/8	06:52	07:41 08:20-08:34/14	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43 08:18-08:34/16	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	455	0	89	101	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May	June	
1	08:50	08:24		07:32	08:26-08:44/18	07:23		06:20	05:36	
	16:48	17:35		18:25		20:17		21:06	21:51	
2	08:50	08:22		07:30	08:28-08:42/14	07:21	07:43-07:46/3	06:18	05:35	
	16:49	17:36		18:26		20:19		21:08	21:52	
3	08:49	08:21		07:28	08:30-08:40/10	07:19	07:41-07:47/6	06:16	05:35	
	16:50	17:38		18:28		20:20		21:09	21:53	
4	08:49	08:19		07:26		07:16	07:39-07:47/8	06:14	05:34	
	16:51	17:40		18:30		20:22		21:11	21:54	
5	08:49	08:18		07:24		07:14	07:37-07:47/10	06:13	05:33	
	16:52	17:42		18:32		20:24		21:13	21:55	
6	08:49	08:16		07:21		07:12	07:35-07:46/11	06:11	05:33	
	16:54	17:44		18:33		20:25		21:14	21:56	
7	08:48	08:14		07:19		07:10	07:36-07:45/9	06:09	05:32	
	16:55	17:45		18:35		20:27		21:16	21:56	
8	08:48	08:13		07:17		07:08	07:37-07:43/6	06:07	05:32	06:24-06:27/3
	16:56	17:47		18:37		20:28		21:17	21:57	
9	08:47	08:11		07:15		07:05		06:06	05:31	06:22-06:30/8
	16:57	17:49		18:38		20:30		21:19	21:58	
10	08:47	08:09		07:13		07:03		06:04	05:31	06:22-06:31/9
	16:59	17:51		18:40		20:32		21:21	21:59	
11	08:46	08:08		07:10		07:01		06:02	05:30	06:20-06:32/12
	17:00	17:53		18:42		20:33		21:22	22:00	
12	08:46	08:06		07:08		06:59		06:01	05:30	06:20-06:33/13
	17:02	17:54		18:44		20:35		21:24	22:00	
13	08:45	08:04		07:06		06:57		05:59	05:30	06:20-06:34/14
	17:03	17:56		18:45		20:37		21:25	22:01	
14	08:44	08:02		07:04		06:54		05:58	05:30	06:20-06:34/14
	17:04	17:58		18:47		20:38		21:27	22:02	
15	08:44	08:00		07:01		06:52		05:56	05:29	06:20-06:35/15
	17:06	18:00		18:49		20:40		21:28	22:02	
16	08:43	07:58	08:34-08:40/6	06:59		06:50		05:55	05:29	06:20-06:36/16
	17:08	18:02		18:50		20:42		21:30	22:03	
17	08:42	07:56	08:31-08:43/12	06:57		06:48		05:53	05:29	06:20-06:36/16
	17:09	18:03		18:52		20:43		21:31	22:03	
18	08:41	07:55	08:29-08:45/16	06:55		06:46		05:52	05:29	06:20-06:36/16
	17:11	18:05		18:54		20:45		21:33	22:03	
19	08:40	07:53	08:28-08:46/18	06:52		06:44		05:51	05:29	06:20-06:37/17
	17:12	18:07		18:55		20:47		21:34	22:04	
20	08:39	07:51	08:26-08:47/21	06:50		06:42		05:49	05:29	06:20-06:37/17
	17:14	18:09		18:57		20:48		21:35	22:04	
21	08:38	07:49	08:26-08:48/22	06:48		06:40		05:48	05:30	06:20-06:37/17
	17:16	18:11		18:59		20:50		21:37	22:04	
22	08:37	07:47	08:25-08:48/23	06:46		06:38		05:47	05:30	06:21-06:38/17
	17:17	18:12		19:00		20:52		21:38	22:05	
23	08:36	07:45	08:25-08:49/24	06:43		06:36		05:45	05:30	06:21-06:38/17
	17:19	18:14		19:02		20:53		21:39	22:05	
24	08:35	07:43	08:25-08:49/24	06:41	07:04-07:05/1	06:34		05:44	05:30	06:21-06:38/17
	17:21	18:16		19:04		20:55		21:41	22:05	
25	08:34	07:40	08:25-08:48/23	06:39	07:01-07:05/4	06:32		05:43	05:31	06:21-06:37/16
	17:22	18:18		19:05		20:56		21:42	22:05	
26	08:32	07:38	08:25-08:48/23	06:37	06:59-07:05/6	06:30		05:42	05:31	06:22-06:38/16
	17:24	18:19		19:07		20:58		21:43	22:05	
27	08:31	07:36	08:26-08:47/21	06:34	06:57-07:05/8	06:28		05:41	05:31	06:22-06:37/15
	17:26	18:21		19:09		21:00		21:45	22:05	
28	08:30	07:34	08:25-08:46/21	06:32	06:54-07:04/10	06:26		05:40	05:32	06:23-06:38/15
	17:27	18:23		19:10		21:01		21:46	22:05	
29	08:28			07:30	07:55-08:03/8	06:24		05:39	05:32	06:23-06:37/14
	17:29			20:12		21:03		21:47	22:05	
30	08:27			07:28	07:58-08:00/2	06:22		05:38	05:33	06:24-06:37/13
	17:31			20:14		21:05		21:48	22:04	
31	08:25			07:25				05:37		
	17:33			20:15				21:49		
Potential sun hours	262	279		367		415		482	495	
Sum of minutes with flicker	0	254		81		53		0	327	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:27-06:36/9	06:12	07:00	07:48	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:29-06:35/6	06:13	07:02 07:34-07:40/6	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:36	06:15	07:03 07:33-07:42/9	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05 07:31-07:42/11	07:52	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06 07:32-07:42/10	07:54	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39	06:19	07:08 07:33-07:41/8	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 07:35-07:41/6	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41	06:23	07:11 07:36-07:39/3	07:59 09:07-09:11/4	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 09:03-09:15/12	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 09:00-09:16/16	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:59-09:18/19	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 07:46-07:53/7	08:06 08:58-09:19/21	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:45-07:54/9	08:07 08:58-09:20/22	08:01	08:42
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 07:45-07:54/9	08:09 08:56-09:19/23	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 07:47-07:54/7	08:11 08:56-09:20/24	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 07:49-07:54/5	08:12 08:56-09:20/24	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37	07:25 07:50-07:52/2	08:14 08:56-09:20/24	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 08:57-09:20/23	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 08:56-09:18/22	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:57-09:17/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:58-09:16/18	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:00-09:15/15	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:02-08:13/11	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:07-08:09/2	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	37	0	92	300	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April	May		June	
1	08:50	08:24		07:32	07:59-08:09/10	07:23	06:20		05:36	18:54-19:56/62
	16:48	17:35		18:25		20:17	21:06		21:51	
2	08:50	08:23		07:30	07:57-08:11/14	07:21	06:18		05:36	18:55-19:57/62
	16:49	17:36		18:26		20:19	21:08		21:52	
3	08:49	08:21		07:28	07:56-08:12/16	07:19	06:16		05:35	18:54-19:57/63
	16:50	17:38		18:28		20:20	21:09		21:53	
4	08:49	08:19		07:26	07:55-08:13/18	07:16	06:15		05:34	18:54-19:58/64
	16:51	17:40		18:30		20:22	21:11		21:54	
5	08:49	08:18		07:24	07:54-08:12/18	07:14	06:13		05:33	18:54-19:59/65
	16:52	17:42		18:32		20:24	21:13		21:55	
6	08:49	08:16		07:21	07:53-08:12/19	07:12	06:11		05:33	18:54-19:59/65
	16:54	17:44		18:33		20:25	21:14		21:56	
7	08:48	08:15		07:19	07:53-08:12/19	07:10	06:09		05:32	18:54-20:00/66
	16:55	17:45		18:35		20:27	21:16		21:56	
8	08:48	08:13		07:17	07:54-08:12/18	07:08	06:08		05:32	18:53-20:00/67
	16:56	17:47		18:37		20:29	21:17		21:57	
9	08:48	08:11		07:15	07:55-08:11/16	07:05	06:06		05:31	18:54-20:00/66
	16:57	17:49		18:39		20:30	21:19		21:58	
10	08:47	08:09		07:13	07:55-08:08/13	07:03	06:04		05:31	18:54-20:01/67
	16:59	17:51		18:40		20:32	21:21		21:59	
11	08:46	08:08		07:10	07:56-08:06/10	07:01	06:03		05:30	18:53-20:01/68
	17:00	17:53		18:42		20:33	21:22		22:00	
12	08:46	08:06		07:08	08:01-08:02/1	06:59	06:01		05:30	18:54-20:01/67
	17:02	17:54		18:44		20:35	21:24		22:00	
13	08:45	08:04		07:06		06:57	05:59		05:30	18:54-20:02/68
	17:03	17:56		18:45		20:37	21:25		22:01	
14	08:44	08:02		07:04	07:35-07:45/10	06:55	05:58	19:16-19:30/14	05:30	18:54-20:02/68
	17:05	17:58		18:47		20:38	21:27		22:02	
15	08:44	08:00		07:02	07:32-07:47/15	06:52	05:56	19:12-19:35/23	05:30	18:54-20:03/69
	17:06	18:00		18:49		20:40	21:28		22:02	
16	08:43	07:58		06:59	07:31-07:48/17	06:50	05:55	19:10-19:38/28	05:29	18:54-20:03/69
	17:08	18:02		18:50		20:42	21:30		22:03	
17	08:42	07:56		06:57	07:29-07:48/19	06:48	05:53	19:07-19:39/32	05:29	18:55-20:03/68
	17:09	18:03		18:52		20:43	21:31		22:03	
18	08:41	07:55		06:55	07:28-07:49/21	06:46	05:52	19:05-19:41/36	05:29	18:55-20:04/69
	17:11	18:05		18:54		20:45	21:33		22:03	
19	08:40	07:53		06:53	07:27-07:49/22	06:44	05:51	19:04-19:43/39	05:29	18:55-20:04/69
	17:12	18:07		18:55		20:47	21:34		22:04	
20	08:39	07:51		06:50	07:27-07:49/22	06:42	05:49	19:03-19:45/42	05:29	18:55-20:04/69
	17:14	18:09		18:57		20:48	21:35		22:04	
21	08:38	07:49		06:48	07:26-07:48/22	06:40	05:48	19:01-19:45/44	05:30	18:55-20:04/69
	17:16	18:11		18:59		20:50	21:37		22:04	
22	08:37	07:47		06:46	07:26-07:48/22	06:38	05:47	19:00-19:47/47	05:30	18:56-20:05/69
	17:17	18:12		19:00		20:52	21:38		22:05	
23	08:36	07:45		06:44	07:27-07:47/20	06:36	05:45	18:59-19:48/49	05:30	18:56-20:05/69
	17:19	18:14		19:02		20:53	21:40		22:05	
24	08:35	07:43		06:41	07:28-07:46/18	06:34	05:44	18:58-19:49/51	05:30	18:56-20:05/69
	17:21	18:16		19:04		20:55	21:41		22:05	
25	08:34	07:41		06:39	07:28-07:43/15	06:32	05:43	18:58-19:50/52	05:31	18:56-20:05/69
	17:22	18:18		19:05		20:56	21:42		22:05	
26	08:32	07:38		06:37	07:30-07:41/11	06:30	05:42	18:57-19:51/54	05:31	18:57-20:05/68
	17:24	18:19		19:07		20:58	21:43		22:05	
27	08:31	07:36		06:34	07:34-07:36/2	06:28	05:41	18:57-19:52/55	05:31	18:56-20:05/69
	17:26	18:21		19:09		21:00	21:45		22:05	
28	08:30	07:34	08:03-08:05/2	06:32		06:26	05:40	18:56-19:52/56	05:32	18:57-20:06/69
	17:27	18:23		19:10		21:01	21:46		22:05	
29	08:28			07:30		06:24	05:39	18:55-19:53/58	05:32	18:57-20:05/68
	17:29			20:12		21:03	21:47		22:05	
30	08:27			07:28		06:22	05:38	18:56-19:55/59	05:33	18:58-20:06/68
	17:31			20:14		21:05	21:48		22:04	
31	08:25			07:25			05:37	18:55-19:55/60		
	17:33			20:15			21:49			
Potential sun hours	262	279		367		415	482		495	
Sum of minutes with flicker	0	2		408		0	799		2018	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:58-20:06/68	06:09	06:57	07:44	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 18:58-20:05/67	06:10	06:59	07:46 08:36-08:44/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 18:59-20:06/67	06:12	07:00	07:48 08:33-08:45/12	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 18:59-20:06/67	06:13	07:02	07:49 08:32-08:47/15	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 18:59-20:05/66	06:15	07:03	07:51 08:31-08:48/17	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 19:00-20:05/65	06:16	07:05	07:53 08:30-08:48/18	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 19:00-20:05/65	06:18	07:06	07:54 08:29-08:48/19	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 19:01-20:05/64	06:20	07:08	07:56 08:29-08:48/19	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 19:02-20:05/63	06:21	07:10	07:57 08:29-08:47/18	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 19:02-20:05/63	06:23	07:11	07:59 08:29-08:46/17	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 19:03-20:04/61	06:24	07:13	08:01 08:30-08:46/16	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 19:03-20:04/61	06:26	07:14	08:02 08:32-08:44/12	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 19:04-20:04/60	06:27	07:16	08:04 08:33-08:41/8	07:57	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45 19:04-20:03/59	06:29	07:17	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 19:05-20:02/57	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47 19:06-20:02/56	06:32	07:21	08:09	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49 19:06-20:01/55	06:33	07:22 08:19-08:29/10	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 19:07-20:00/53	06:35	07:24 08:16-08:30/14	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51 19:08-19:59/51	06:37	07:25 08:15-08:32/17	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 19:08-19:58/50	06:38	07:27 08:14-08:33/19	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 19:10-19:58/48	06:40	07:28 08:12-08:33/21	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 19:11-19:57/46	06:41	07:30 08:12-08:34/22	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 19:12-19:55/43	06:43	07:32 08:11-08:33/22	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 19:13-19:54/41	06:44	07:33 08:11-08:33/22	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 19:15-19:53/38	06:46	07:35 08:10-08:32/22	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 19:16-19:51/35	06:48	07:36 08:11-08:31/20	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 19:18-19:49/31	06:49	07:38 08:12-08:30/18	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 19:21-19:47/26	06:51	07:40 08:12-08:28/16	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 19:24-19:44/20	06:52	07:41 08:15-08:27/12	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 19:28-19:38/10	06:54	07:43 08:17-08:22/5	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	1556	0	240	179	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:11-15:27/16 16:48	08:24 17:35	07:32 08:32-09:09/37 18:25	07:23 19:02-19:30/28 20:17	06:20 21:06	05:36 06:04-06:06/2 21:51
2	08:50 15:12-15:27/15 16:49	08:23 17:36	07:30 08:32-09:09/37 18:26	07:21 19:02-19:31/29 20:19	06:18 21:08	05:36 06:04-06:07/3 21:52
3	08:49 15:14-15:27/13 16:50	08:21 09:07-09:09/2 17:38	07:28 08:32-09:09/37 18:28	07:19 19:01-19:31/30 20:20	06:16 21:09	05:35 06:03-06:06/3 21:53
4	08:49 15:14-15:27/13 16:51	08:19 09:03-09:14/11 17:40	07:26 08:32-09:09/37 18:30	07:17 19:01-19:31/30 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 15:16-15:27/11 16:52	08:18 09:01-09:16/15 17:42	07:24 08:31-09:07/36 18:32	07:14 19:01-19:31/30 20:24	06:13 21:13	05:33 06:02-06:06/4 21:55
6	08:49 15:18-15:25/7 16:54	08:16 08:59-09:17/18 17:44	07:21 08:31-09:07/36 18:33	07:12 19:01-19:30/29 20:25	06:11 21:14	05:33 06:01-06:05/4 21:56
7	08:48 15:21-15:24/3 16:55	08:15 08:57-09:18/21 17:45	07:19 08:32-09:06/34 18:35	07:10 19:01-19:29/28 20:27	06:09 21:16	05:32 06:01-06:05/4 21:56
8	08:48 16:56	08:13 08:57-09:20/23 17:47	07:17 08:32-09:06/34 18:37	07:08 19:02-19:28/26 20:29	06:08 21:17	05:32 06:02-06:05/3 21:57
9	08:48 16:57	08:11 08:56-09:21/25 17:49	07:15 08:33-09:05/32 18:39	07:05 19:02-19:28/26 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 08:55-09:21/26 17:51	07:13 08:33-09:02/29 18:40	07:03 19:03-19:26/23 20:32	06:04 21:21	05:31 21:59
11	08:46 17:00	08:08 08:55-09:22/27 17:53	07:10 08:34-09:01/27 18:42	07:01 19:04-19:24/20 20:33	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 08:54-09:22/28 17:54	07:08 08:36-08:59/23 18:44	06:59 19:06-19:22/16 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 08:54-09:22/28 17:56	07:06 08:38-08:56/18 18:45	06:57 19:08-19:20/12 20:37	05:59 21:25	05:30 22:01
14	08:44 17:05	08:02 08:54-09:22/28 17:58	07:04 08:40-08:52/12 18:47	06:55 20:38	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 08:54-09:22/28 18:00	07:02 18:49	06:52 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 08:54-09:21/27 18:02	06:59 18:50	06:50 20:42	05:55 21:30	05:29 22:03
17	08:42 17:09	07:56 08:55-09:21/26 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03
18	08:41 17:11	07:55 08:55-09:20/25 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:29 22:03
19	08:40 17:12	07:53 08:51-08:53/2 18:07 08:56-09:19/23	06:53 18:55	06:44 20:47	05:51 21:34	05:29 22:04
20	08:39 17:14	07:51 08:45-09:17/32 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04
21	08:38 17:16	07:49 08:42-09:16/34 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04
22	08:37 17:17	07:47 08:40-09:13/33 18:12	06:46 19:00	06:38 20:52	05:47 21:38	05:30 22:05
23	08:36 17:19	07:45 08:38-09:09/31 18:14	06:44 19:02	06:36 20:53	05:46 21:40	05:30 22:05
24	08:35 17:21	07:43 08:37-09:06/29 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05
25	08:34 17:22	07:41 08:36-09:07/31 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05
26	08:32 17:24	07:38 08:35-09:08/33 18:19	06:37 18:15-18:22/7 19:07	06:30 20:58	05:42 21:43	05:31 22:05
27	08:31 17:26	07:36 08:34-09:09/35 18:21	06:34 18:11-18:25/14 19:09	06:28 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 08:32-09:08/36 18:23	06:32 18:08-18:26/18 19:10	06:26 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 19:06-19:28/22 20:12	06:24 21:03	05:39 21:47	05:33 22:05
30	08:27 17:31		07:28 19:05-19:30/25 20:14	06:22 21:05	05:38 21:48	05:33 22:04
31	08:26 17:33		07:25 19:04-19:31/27 20:15		05:37 06:05-06:06/1 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	78	677	542	327	1	27

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:04-19:24/20	07:44 09:15-09:36/21	07:37 08:25-08:51/26	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:10	06:59 19:01-19:24/23	07:46 09:14-09:39/25	07:38 08:26-08:50/24	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:00-19:26/26	07:48 09:11-09:39/28	07:40 08:27-08:50/23	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02 18:59-19:25/26	07:49 09:10-09:41/31	07:42 08:27-08:48/21	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:11/4	06:15	07:03 18:58-19:26/28	07:51 09:09-09:42/33	07:44 08:29-08:47/18	08:31 15:06-15:09/3
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:11/4	06:16	07:05 18:57-19:26/29	07:53 09:08-09:42/34	07:45 08:31-08:46/15	08:33 15:04-15:11/7
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:12/4	06:18	07:06 18:57-19:26/29	07:54 09:07-09:43/36	07:47 08:33-08:44/11	08:34 15:04-15:14/10
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 18:55-19:25/30	07:56 09:07-09:43/36	07:49	08:35 15:03-15:15/12
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 18:56-19:25/29	07:57 09:06-09:43/37	07:50	08:36 15:02-15:16/14
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:14/3	06:23	07:11 18:55-19:24/29	07:59 09:06-09:43/37	07:52	08:37 15:02-15:16/14
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:14/2	06:24	07:13 18:55-19:23/28	08:01 09:06-09:43/37	07:54	08:38 15:01-15:17/16
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:15/2	06:26	07:14 18:55-19:22/27	08:02 09:06-09:43/37	07:56	08:39 15:01-15:18/17
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:15/1	06:27	07:16 18:56-19:21/25	08:04 09:05-09:42/37	07:57	08:40 15:01-15:19/18
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 18:56-19:19/23	08:06 09:06-09:41/35	07:59	08:41 15:02-15:19/17
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 18:58-19:17/19	08:07 09:07-09:41/34	08:01	08:42 15:02-15:20/18
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 18:59-19:14/15	08:09 09:06-09:39/33	08:02	08:43 15:02-15:21/19
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:33	07:22 19:02-19:11/9	08:11 09:07-09:38/31	08:04	08:44 15:03-15:22/19
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 09:09-09:37/28	08:06	08:45 15:03-15:22/19
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14 09:10-09:42/32	08:07	08:45 15:03-15:23/20
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 09:12-09:45/33	08:09	08:46 15:04-15:23/19
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:18 09:13-09:47/34	08:11	08:47 15:04-15:23/19
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 09:17-09:48/31	08:12	08:47 15:05-15:24/19
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 09:26-09:50/24	08:14	08:48 15:05-15:24/19
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:25-09:51/26	08:16	08:48 15:05-15:24/19
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:25-08:51/26	08:17	08:48 15:06-15:26/20
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:25-08:52/27	08:19	08:49 15:07-15:26/19
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 08:23-08:51/28	08:20	08:49 15:07-15:26/19
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 08:23-08:51/28	08:22	08:49 15:08-15:26/18
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 09:22-09:31/9	07:31 08:24-08:52/28	08:23	08:49 15:08-15:26/18
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:09-19:21/12	07:43 09:17-09:34/17	07:33 08:24-08:52/28	08:25	08:50 15:09-15:27/18
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55 19:05-19:22/17		07:35 08:24-08:51/27		08:50 15:10-15:27/17
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	27	29	441	962	138	447

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:49-16:06/17	08:24	07:32	07:23	06:20 19:47-20:12/25	05:36
	16:48 11:36-12:20/44	17:35	18:25	20:17	21:06	21:51
2	08:50 15:50-16:06/16	08:23	07:30	07:21	06:18 19:47-20:11/24	05:36 06:04-06:06/2
	16:49 11:37-12:21/44	17:36	18:26	20:19	21:08	21:52
3	08:49 15:51-16:07/16	08:21	07:28	07:19	06:16 19:47-20:10/23	05:35 06:03-06:06/3
	16:50 11:38-12:21/43	17:38	18:28	20:20	21:10	21:53
4	08:49 15:51-16:07/16	08:19	07:26	07:17	06:15 19:49-20:10/21	05:34 06:02-06:06/4
	16:51 11:37-12:21/44	17:40	18:30	20:22	21:11	21:54
5	08:49 15:52-16:07/15	08:18	07:24	07:14	06:13 19:50-20:09/19	05:33 06:02-06:06/4
	16:52 11:38-12:22/44	17:42	18:32	20:24	21:13	21:55
6	08:49 15:52-16:07/15	08:16	07:21 17:59-18:02/3	07:12	06:11 19:50-20:07/17	05:33 06:01-06:06/5
	16:54 11:39-12:21/42	17:44	18:33	20:25	21:14	21:56
7	08:48 15:53-16:08/15	08:15	07:19 17:56-18:06/10	07:10	06:09 19:53-20:06/13	05:32 06:01-06:07/6
	16:55 11:40-12:22/42	17:45	18:35	20:27	21:16	21:56
8	08:48 15:53-16:07/14	08:13	07:17 17:54-18:08/14	07:08	06:08 19:54-20:04/10	05:32 06:01-06:07/6
	16:56 11:40-12:22/42	17:47	18:37	20:29	21:17	21:57
9	08:48 15:55-16:08/13	08:11	07:15 17:52-18:08/16	07:05	06:06	05:31 06:00-06:07/7
	16:58 11:41-12:22/41	17:49	18:39	20:30	21:19	21:58
10	08:47 15:55-16:08/13	08:09	07:13 17:51-18:09/18	07:03	06:04	05:31 06:00-06:07/7
	16:59 11:42-12:22/40	17:51	18:40	20:32	21:21	21:59
11	08:46 15:56-16:07/11	08:08	07:10 17:51-18:09/18	07:01	06:03	05:31 06:00-06:08/8
	17:00 11:42-12:21/39	17:53	18:42	20:34	21:22	22:00
12	08:46 15:58-16:07/9	08:06	07:08 17:51-18:09/18	06:59	06:01	05:30 05:59-06:07/8
	17:02 11:44-12:22/38	17:54	18:44	20:35	21:24	22:00
13	08:45 16:00-16:06/6	08:04	07:06 17:50-18:08/18	06:57	05:59	05:30 05:59-06:07/8
	17:03 11:45-12:22/37	17:56	18:45	20:37	21:25	22:01
14	08:44 11:46-12:21/35	08:02	07:04 17:51-18:08/17	06:55	05:58	05:30 05:59-06:08/9
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:47-12:21/34	08:00	07:02 17:52-18:07/15	06:52	05:56	05:30 05:59-06:08/9
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:48-12:20/32	07:58	06:59 17:53-18:06/13	06:50	05:55	05:29 05:59-06:08/9
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:49-12:19/30	07:57	06:57 17:55-18:02/7	06:48	05:53	05:29 05:59-06:08/9
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:51-12:18/27	07:55	06:55	06:46	05:52	05:29 05:59-06:08/9
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:53-12:17/24	07:53	06:53	06:44 19:56-20:06/10	05:51	05:29 05:59-06:08/9
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:55-12:16/21	07:51	06:50	06:42 19:53-20:09/16	05:49	05:30 05:59-06:08/9
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:57-12:12/15	07:49	06:48	06:40 19:52-20:10/18	05:48	05:30 05:59-06:08/9
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 12:03-12:05/2	07:47	06:46	06:38 19:50-20:11/21	05:47	05:30 06:00-06:09/9
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:44	06:36 19:49-20:12/23	05:46	05:30 06:00-06:09/9
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41	06:34 19:48-20:13/25	05:44	05:30 06:00-06:09/9
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:41	06:39	06:32 19:47-20:13/26	05:43	05:31 06:01-06:10/9
	17:22	18:18	19:05	20:57	21:42	22:05
26	08:32	07:38	06:37	06:30 19:47-20:13/26	05:42	05:31 06:01-06:10/9
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36	06:35	06:28 19:46-20:13/27	05:41	05:32 06:02-06:11/9
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32	06:26 19:46-20:13/27	05:40	05:32 06:02-06:11/9
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24 19:47-20:13/26	05:39	05:33 06:03-06:11/8
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22 19:47-20:13/26	05:38	05:33 06:03-06:11/8
	17:31		20:14	21:05	21:48	22:04
31	08:26		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	936	0	167	271	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:12/8	06:09	06:57	07:44 18:30-18:48/18	07:37	08:26 15:38-15:49/11
	22:04	21:34	20:33	19:25	17:21	16:42 11:24-12:04/40
2	05:34 06:04-06:12/8	06:10	06:59	07:46 18:30-18:48/18	07:38	08:27 15:38-15:51/13
	22:04	21:32	20:31	19:23	17:19	16:41 11:25-12:05/40
3	05:35 06:05-06:12/7	06:12	07:00	07:48 18:29-18:47/18	07:40	08:29 15:38-15:51/13
	22:04	21:30	20:29	19:21	17:17	16:41 11:24-12:05/41
4	05:36 06:06-06:13/7	06:13 20:07-20:11/4	07:02	07:49 18:30-18:46/16	07:42	08:30 15:38-15:52/14
	22:03	21:29	20:27	19:19	17:16	16:40 11:25-12:07/42
5	05:37 06:07-06:13/6	06:15 20:04-20:15/11	07:03	07:51 18:30-18:45/15	07:44	08:31 15:38-15:53/15
	22:03	21:27	20:24	19:16	17:14	16:40 11:25-12:07/42
6	05:37 06:07-06:12/5	06:17 20:01-20:16/15	07:05	07:53 18:31-18:43/12	07:45	08:33 15:38-15:53/15
	22:02	21:25	20:22	19:14	17:12	16:39 11:25-12:07/42
7	05:38 06:08-06:13/5	06:18 20:00-20:18/18	07:06	07:54 18:33-18:41/8	07:47	08:34 15:39-15:54/15
	22:02	21:24	20:20	19:12	17:11	16:39 11:26-12:09/43
8	05:39 06:09-06:13/4	06:20 19:59-20:19/20	07:08	07:56	07:49	08:35 15:39-15:55/16
	22:01	21:22	20:18	19:10	17:09	16:39 11:26-12:09/43
9	05:40 06:10-06:13/3	06:21 19:57-20:19/22	07:10	07:57	07:50	08:36 15:39-15:55/16
	22:00	21:20	20:15	19:08	17:07	16:38 11:26-12:09/43
10	05:41 06:11-06:13/2	06:23 19:57-20:20/23	07:11	07:59	07:52	08:37 15:39-15:55/16
	22:00	21:18	20:13	19:05	17:06	16:38 11:26-12:10/44
11	05:42 06:12-06:13/1	06:24 19:55-20:20/25	07:13	08:01	07:54	08:38 15:39-15:56/17
	21:59	21:16	20:11	19:03	17:04	16:38 11:26-12:10/44
12	05:43	06:26 19:55-20:21/26	07:14	08:02	07:56	08:39 15:40-15:56/16
	21:58	21:14	20:09	19:01	17:03	16:38 11:26-12:11/45
13	05:44	06:27 19:54-20:20/26	07:16	08:04	07:57	08:40 15:40-15:57/17
	21:57	21:13	20:06	18:59	17:01	16:38 11:27-12:12/45
14	05:45	06:29 19:54-20:21/27	07:17	08:06	07:59	08:41 15:41-15:57/16
	21:56	21:11	20:04	18:57	17:00	16:38 11:27-12:12/45
15	05:46	06:30 19:54-20:20/26	07:19	08:07	08:01	08:42 15:41-15:58/17
	21:56	21:09	20:02	18:55	16:59	16:38 11:28-12:13/45
16	05:48	06:32 19:54-20:20/26	07:21	08:09	08:02	08:43 15:42-15:58/16
	21:55	21:07	20:00	18:52	16:57	16:38 11:28-12:13/45
17	05:49	06:34 19:53-20:19/26	07:22	08:11	08:04	08:44 15:42-15:59/17 11:11-11:13/2
	21:54	21:05	19:57	18:50	16:56	16:38 11:29-12:14/45
18	05:50	06:35 19:54-20:19/25	07:24	08:12	08:06	08:45 15:42-15:59/17 11:09-11:14/5
	21:52	21:03	19:55	18:48	16:55	16:39 11:28-12:14/46
19	05:51	06:37 19:54-20:18/24	07:25	08:14	08:07	08:45 15:43-16:00/17 11:09-11:15/6
	21:51	21:01	19:53	18:46	16:53	16:39 11:29-12:15/46
20	05:52	06:38 19:55-20:18/23	07:27	08:16	08:09 11:38-11:40/2	08:46 15:44-16:00/16 11:10-11:17/7
	21:50	20:59	19:50	18:44	16:52	16:39 11:30-12:16/46
21	05:54	06:40 19:55-20:16/21	07:28	08:18	08:11 11:33-11:48/15	08:47 15:44-16:00/16 11:10-11:17/7
	21:49	20:57	19:48	18:42	16:51	16:40 11:30-12:16/46
22	05:55	06:41 19:56-20:14/18	07:30	08:19	08:12 11:31-11:52/21	08:47 15:45-16:01/16 11:11-11:18/7
	21:48	20:55	19:46	18:40	16:50	16:40 11:31-12:17/46
23	05:56	06:43 19:57-20:12/15	07:32	08:21	08:14 11:29-11:53/24	08:48 15:45-16:01/16 11:11-11:18/7
	21:47	20:53	19:44	18:38	16:49	16:41 11:31-12:17/46
24	05:58	06:44 20:00-20:10/10	07:33	08:23	08:16 11:28-11:55/27	08:48 15:45-16:01/16 11:12-11:18/6
	21:45	20:50	19:41	18:36	16:48	16:41 11:31-12:17/46
25	05:59	06:46	07:35	07:24	08:17 11:27-11:57/30	08:48 15:46-16:03/17 11:13-11:18/5
	21:44	20:48	19:39	17:34	16:47	16:42 11:32-12:18/46
26	06:00	06:48	07:36 18:39-18:44/5	07:26	08:19 11:26-11:58/32	08:49 15:46-16:03/17 11:14-11:17/3
	21:43	20:46	19:37	17:32	16:46	16:43 11:33-12:18/45
27	06:02	06:49	07:38 18:36-18:47/11	07:28	08:20 11:26-12:00/34	08:49 15:47-16:03/16
	21:41	20:44	19:34	17:30	16:45	16:43 11:33-12:18/45
28	06:03	06:51	07:40 18:33-18:47/14	07:30	08:22 11:26-12:01/35	08:49 15:47-16:04/17
	21:40	20:42	19:32	17:28	16:44	16:44 11:33-12:19/46
29	06:05	06:52	07:41 18:32-18:48/16	07:31	08:23 15:40-15:46/6	08:49 15:47-16:04/17
	21:38	20:40	19:30	17:26	16:43 11:25-12:02/37	16:45 11:34-12:19/45
30	06:06	06:54	07:43 18:30-18:48/18	07:33	08:25 15:40-15:48/8	08:50 15:48-16:04/16
	21:37	20:38	19:28	17:25	16:43 11:25-12:03/38	16:46 11:34-12:19/45
31	06:08	06:55		07:35		08:50 15:48-16:05/17
	21:35	20:35		17:23		16:47 11:35-12:20/45
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	56	431	64	105	309	1919

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50 07:13-07:15/2	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48 07:11-07:15/4	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46 07:09-07:14/5	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44 07:07-07:13/6	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42 07:08-07:11/3	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	351	167	303	20	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57		07:44	08:24-08:30/6	07:37		08:26	09:00-09:20/20
	22:04	21:34		20:33		19:25	08:09-08:11/2	17:21		16:42	
2	05:34	06:11		06:59		07:46	08:22-08:32/10	07:38		08:27	09:01-09:21/20
	22:04	21:32		20:31		19:23		17:19		16:42	
3	05:35	06:12		07:00		07:48	08:20-08:33/13	07:40		08:29	09:01-09:20/19
	22:03	21:30		20:29		19:21		17:17		16:41	
4	05:36	06:14		07:02		07:49	08:19-08:33/14	07:42		08:30	09:02-09:21/19
	22:03	21:29		20:27		19:19		17:16		16:40	
5	05:37	06:15		07:03		07:51	08:19-08:34/15	07:43		08:31	09:03-09:21/18
	22:03	21:27		20:24		19:16		17:14		16:40	
6	05:38	06:17		07:05		07:53	08:18-08:33/15	07:45		08:33	09:04-09:21/17
	22:02	21:25		20:22		19:14		17:12		16:40	
7	05:38	06:18		07:07		07:54	08:19-08:32/13	07:47		08:34	09:06-09:21/15
	22:02	21:24		20:20		19:12		17:11		16:39	
8	05:39	06:20		07:08		07:56	08:21-08:32/11	07:49		08:35	09:07-09:21/14
	22:01	21:22		20:18		19:10		17:09		16:39	
9	05:40	06:21		07:10		07:57	08:22-08:29/7	07:50		08:36	09:08-09:21/13
	22:00	21:20		20:15		19:08		17:07		16:39	
10	05:41	06:23		07:11		07:59	08:50-08:59/9	07:52		08:37	09:09-09:21/12
	22:00	21:18		20:13		19:05	08:24-08:26/2	17:06		16:38	
11	05:42	06:24		07:13		08:01	08:48-09:01/13	07:54		08:38	09:10-09:21/11
	21:59	21:16		20:11		19:03		17:04		16:38	
12	05:43	06:26		07:14	19:17-19:25/8	08:02	08:47-09:02/15	07:56		08:39	09:11-09:21/10
	21:58	21:14		20:09		19:01		17:03		16:38	
13	05:44	06:27		07:16	19:15-19:26/11	08:04	08:45-09:02/17	07:57		08:40	09:12-09:21/9
	21:57	21:13		20:06		18:59	18:24-18:25/1	17:01		16:38	
14	05:45	06:29		07:18	19:13-19:27/14	08:06	08:44-09:03/19	07:59		08:41	09:13-09:21/8
	21:56	21:11		20:04		18:57	18:21-18:28/7	17:00		16:38	
15	05:47	06:30		07:19	19:12-19:27/15	08:07	08:44-09:03/19	08:01		08:42	09:14-09:21/7
	21:55	21:09		20:02		18:55	18:20-18:27/7	16:59		16:38	
16	05:48	06:32		07:21	19:11-19:27/16	08:09	08:44-09:03/19	08:02		08:43	09:15-09:21/6
	21:54	21:07		20:00		18:53	18:19-18:24/5	16:57		16:38	
17	05:49	06:34		07:22	19:11-19:27/16	08:11	08:44-09:02/18	08:04		08:44	09:16-09:21/5
	21:53	21:05		19:57		18:50	18:19-18:22/3	16:56		16:39	
18	05:50	06:35		07:24	19:10-19:25/15	08:12	08:44-09:02/18	08:06		08:45	09:16-09:20/4
	21:52	21:03		19:55		18:48		16:55		16:39	
19	05:51	06:37		07:25	19:11-19:25/14	08:14	08:45-09:01/16	08:07	09:05-09:09/4	08:45	09:17-09:18/1
	21:51	21:01		19:53		18:46		16:53		16:39	
20	05:53	06:38		07:27	19:12-19:23/11	08:16	08:46-09:00/14	08:09	09:04-09:12/8	08:46	
	21:50	20:59		19:50		18:44		16:52		16:39	
21	05:54	06:40		07:29	19:13-19:20/7	08:18	08:48-08:57/9	08:11	09:03-09:14/11	08:47	
	21:49	20:57		19:48		18:42		16:51		16:40	
22	05:55	06:41		07:30		08:19		08:12	09:02-09:16/14	08:47	
	21:48	20:55		19:46		18:40		16:50		16:40	
23	05:56	06:43	07:11-07:15/4	07:32		08:21		08:14	09:01-09:16/15	08:48	
	21:47	20:53		19:44		18:38		16:49		16:41	
24	05:58	06:45	07:11-07:17/6	07:33		08:23		08:16	09:01-09:17/16	08:48	09:19-09:20/1
	21:45	20:50		19:41		18:36		16:48		16:41	
25	05:59	06:46	07:12-07:17/5	07:35		07:24		08:17	09:02-09:18/16	08:48	09:22-09:24/2
	21:44	20:48		19:39		17:34		16:47		16:42	09:20-09:21/1
26	06:01	06:48	07:14-07:18/4	07:36		07:26		08:19	09:01-09:18/17	08:49	09:20-09:25/5
	21:43	20:46		19:37		17:32		16:46		16:43	
27	06:02	06:49	07:15-07:17/2	07:38	08:05-08:12/7	07:28		08:20	09:02-09:19/17	08:49	09:20-09:26/6
	21:41	20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51		07:40	08:04-08:12/8	07:30		08:22	09:02-09:20/18	08:49	09:20-09:26/6
	21:40	20:42		19:32		17:28		16:44		16:44	
29	06:05	06:52		07:41	08:06-08:12/6	07:31		08:23	09:01-09:19/18	08:49	09:20-09:27/7
	21:38	20:40		19:30		17:27		16:44		16:45	
30	06:06	06:54		07:43	08:08-08:12/4	07:33		08:25	09:01-09:20/19	08:49	09:20-09:28/8
	21:37	20:38		19:28		17:25		16:43		16:46	
31	06:08	06:56				07:35				08:50	09:20-09:29/9
	21:35	20:35				17:23				16:47	
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	21		152		317		173		273	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 08:57-09:09/12	07:32 17:35-17:51/16	07:23	06:20	05:36 06:16-06:35/19
	16:48	17:35	18:25	20:17	21:06	21:50 20:17-20:40/23
2	08:49	08:22 08:58-09:08/10	07:30 17:35-17:51/16	07:21	06:18	05:36 06:17-06:36/19
	16:49	17:36	18:26	20:19	21:08	21:52 20:17-20:42/25
3	08:49	08:21 08:59-09:06/7	07:28 17:36-17:50/14	07:19	06:16	05:35 06:16-06:35/19
	16:50	17:38	18:28	20:20	21:09	21:53 20:16-20:43/27
4	08:49	08:19	07:26 17:37-17:49/12	07:17	06:15	05:34 06:16-06:35/19
	16:51	17:40	18:30	20:22	21:11	21:54 20:15-20:43/28
5	08:49	08:18	07:24 17:39-17:46/7	07:14	06:13	05:34 06:17-06:35/18
	16:53	17:42	18:32	20:24	21:13	21:55 20:15-20:44/29
6	08:49	08:16	07:21	07:12	06:11	05:33 06:17-06:35/18
	16:54	17:44	18:33	20:25	21:14	21:55 20:14-20:45/31
7	08:48	08:14	07:19	07:10	06:09	05:32 06:18-06:35/17
	16:55	17:45	18:35	20:27	21:16	21:56 20:14-20:46/32
8	08:48	08:13	07:17	07:08	06:08	05:32 06:19-06:36/17
	16:56	17:47	18:37	20:29	21:17	21:57 20:13-20:46/33
9	08:47	08:11	07:15	07:05	06:06	05:31 06:18-06:35/17
	16:58	17:49	18:39	20:30	21:19	21:58 20:14-20:47/33
10	08:47	08:09	07:13	07:03	06:04	05:31 06:19-06:35/16
	16:59	17:51	18:40	20:32	21:21	21:59 20:14-20:48/34
11	08:46	08:08	07:10	07:01	06:03	05:31 06:20-06:35/15
	17:00	17:53	18:42	20:33	21:22	22:00 20:14-20:49/35
12	08:46	08:06	07:08	06:59	06:01	05:30 06:19-06:35/16
	17:02	17:54	18:44	20:35	21:24	22:00 20:13-20:48/35
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:35/15
	17:03	17:56	18:45	20:37	21:25	22:01 20:13-20:49/36
14	08:44	08:02 08:26-08:28/2	07:04	06:55	05:58	05:30 06:20-06:35/15
	17:05	17:58	18:47	20:38	21:27	22:01 20:14-20:49/35
15	08:44	08:00 08:24-08:27/3	07:02	06:52	05:56	05:30 06:21-06:35/14
	17:06	18:00	18:49	20:40	21:28	22:02 20:14-20:50/36
16	08:43	07:58 08:22-08:26/4	06:59	06:50	05:55	05:30 06:21-06:35/14
	17:08	18:02	18:50	20:42	21:30	22:03 20:14-20:50/36
17	08:42	07:56	06:57	06:48	05:53	05:29 06:22-06:35/13
	17:09	18:03	18:52	20:43	21:31	22:03 20:14-20:51/37
18	08:41	07:55	06:55 07:17-07:19/2	06:46	05:52	05:29 06:22-06:35/13
	17:11	18:05	18:54	20:45	21:32	22:03 20:14-20:51/37
19	08:40	07:53	06:53 07:15-07:20/5	06:44	05:51 06:21-06:29/8	05:30 06:22-06:35/13
	17:12	18:07	18:55	20:47	21:34	22:04 20:14-20:51/37
20	08:39	07:51	06:50 07:13-07:20/7	06:42	05:49 06:20-06:30/10	05:30 06:22-06:35/13
	17:14	18:09	18:57	20:48	21:35	22:04 20:14-20:51/37
21	08:38	07:49	06:48 07:10-07:19/9	06:40	05:48 06:19-06:32/13	05:30 06:22-06:35/13
	17:16	18:11	18:59	20:50	21:37	22:04 20:14-20:51/37
22	08:37	07:47 08:10-08:11/1	06:46 07:08-07:18/10	06:38	05:47 06:17-06:32/15	05:30 06:23-06:36/13
	17:17	18:12	19:00	20:52	21:38	22:04 20:15-20:52/37
23	08:36 09:03-09:04/1	07:45 17:41-17:46/5	06:44 07:10-07:17/7	06:36	05:46 06:17-06:32/15	05:30 06:23-06:36/13
	17:19	18:14 08:08-08:12/4	19:02 07:06-07:09/3	20:53	21:39	22:05 20:15-20:52/37
24	08:35 09:02-09:06/4	07:43 17:39-17:49/10	06:41 07:04-07:09/5	06:34	05:44 06:16-06:33/17	05:30 06:23-06:36/13
	17:21	18:16 08:06-08:12/6	19:04	20:55	21:41	22:05 20:15-20:52/37
25	08:34 09:00-09:06/6	07:40 17:37-17:51/14	06:39 07:01-07:07/6	06:32	05:43 06:16-06:34/18	05:31 06:24-06:37/13
	17:22	18:18 08:04-08:12/8	19:05	20:56	21:42	22:05 20:16-20:53/37
26	08:32 08:59-09:08/9	07:38 17:36-17:52/16	06:37 07:02-07:04/2	06:30	05:42 06:16-06:34/18	05:31 06:23-06:37/14
	17:24	18:19 08:02-08:12/10	19:07	20:58	21:43	22:05 20:16-20:53/37
27	08:31 08:57-09:08/11	07:36 17:35-17:51/16	06:34	06:28	05:41 06:15-06:34/19	05:32 06:24-06:38/14
	17:26	18:21 08:03-08:11/8	19:09	21:00	21:45 20:25-20:31/6	22:05 20:16-20:52/36
28	08:30 08:56-09:09/13	07:34 17:35-17:51/16	06:32	06:26	05:40 06:15-06:34/19	05:32 06:24-06:38/14
	17:28	18:23 08:04-08:08/4	19:10	21:01	21:46 20:22-20:34/12	22:05 20:17-20:53/36
29	08:28 08:55-09:09/14		07:30	06:24	05:39 06:16-06:35/19	05:33 06:24-06:39/15
	17:29		20:12	21:03	21:47 20:21-20:37/16	22:05 20:16-20:52/36
30	08:27 08:55-09:09/14		07:28	06:22	05:38 06:16-06:35/19	05:33 06:24-06:39/15
	17:31		20:14	21:05	21:48 20:19-20:38/19	22:04 20:17-20:53/36
31	08:25 08:56-09:09/13		07:25		05:37 06:16-06:35/19	
	17:33		20:15		21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	85	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 08:32-08:41/9	08:43
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 08:34-08:40/6	08:44
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 08:36-08:40/4	08:45
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 08:37-08:38/1	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09	08:46
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14	08:48
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:12-15:51/39	08:24 17:01-17:05/4	07:32	07:23	06:20	05:36
	16:48	17:35 16:20-16:55/35	18:25	20:17	21:06	21:51
2	08:50 15:13-15:52/39	08:23 17:00-17:07/7	07:30	07:21 19:50-19:53/3	06:18	05:36
	16:49	17:36 16:20-16:55/35	18:26	20:19	21:08	21:52
3	08:49 15:14-15:53/39	08:21 17:00-17:09/9	07:28	07:19 19:48-19:55/7	06:16	05:35
	16:50	17:38 16:19-16:56/37	18:28	20:20	21:10	21:53
4	08:49 15:14-15:52/38	08:19 17:01-17:11/10	07:26	07:17 19:47-19:57/10	06:15	05:34
	16:51	17:40 16:19-16:57/38	18:30	20:22	21:11	21:54
5	08:49 15:14-15:53/39	08:18 17:01-17:13/12	07:24	07:14 19:46-19:58/12	06:13	05:33
	16:53	17:42 16:19-16:57/38	18:32	20:24	21:13	21:55
6	08:49 15:14-15:53/39	08:16 17:01-17:15/14	07:21	07:12 19:44-19:59/15	06:11	05:33
	16:54	17:44 16:19-16:57/38	18:33	20:25	21:14	21:56
7	08:48 15:15-15:54/39	08:15 17:02-17:15/13	07:19	07:10 19:44-20:01/17	06:09	05:32
	16:55	17:45 16:19-16:57/38	18:35	20:27	21:16	21:57
8	08:48 15:15-15:54/39	08:13 17:04-17:15/11	07:17	07:08 19:44-20:03/19	06:08	05:32
	16:56	17:47 16:20-16:58/38	18:37	20:29	21:17	21:57
9	08:48 15:16-15:55/39	08:11 17:05-17:13/8	07:15	07:05 19:44-20:03/19	06:06	05:31
	16:58	17:49 16:20-16:58/38	18:39	20:30	21:19	21:58
10	08:47 15:16-15:55/39	08:09 16:20-16:57/37	07:13	07:03 19:44-20:03/19	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47 15:17-15:55/38	08:08 16:20-16:57/37	07:11 18:14-18:17/3	07:01 19:44-20:01/17	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46 15:18-15:56/38	08:06 16:21-16:56/35	07:08 18:13-18:19/6	06:59 19:45-19:59/14	06:01	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 15:18-15:56/38	08:04 16:21-16:56/35	07:06 18:11-18:20/9	06:57 19:47-19:58/11	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45 15:19-15:56/37	08:02 16:22-16:55/33	07:04 18:11-18:22/11	06:55 19:50-19:54/4	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 15:20-15:56/36	08:00 16:23-16:54/31	07:02 18:11-18:24/13	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 15:20-15:56/36	07:58 16:24-16:53/29	06:59 18:11-18:26/15	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 15:21-15:56/35	07:57 16:26-16:52/26	06:57 18:11-18:25/14	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 15:22-15:56/34	07:55 16:28-16:50/22	06:55 18:13-18:24/11	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 15:23-15:56/33	07:53 16:30-16:48/18	06:53 18:15-18:22/7	06:44	05:51	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 15:24-15:56/32	07:51 16:33-16:45/12	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 15:24-15:55/31	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:30-16:38/8	07:47	06:46	06:38	05:47	05:30
	17:17 15:26-15:55/29	18:12	19:00	20:52	21:38	22:05
23	08:36 16:28-16:42/14	07:45	06:44	06:36	05:46	05:30
	17:19 15:27-15:54/27	18:14	19:02	20:53	21:40	22:05
24	08:35 16:26-16:45/19	07:43	06:41	06:34	05:44	05:30
	17:21 15:29-15:54/25	18:16	19:04	20:55	21:41	22:05
25	08:34 16:24-16:46/22	07:41	06:39	06:32	05:43	05:31
	17:22 15:30-15:52/22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:24-16:48/24	07:39	06:37	06:30	05:42	05:31
	17:24 15:33-15:51/18	18:19	19:07	20:58	21:43	22:05
27	08:31 16:22-16:49/27	07:36	06:35	06:28	05:41	05:32
	17:26 15:35-15:48/13	18:21	19:09	21:00	21:45	22:05
28	08:30 16:22-16:51/29	07:34	06:32	06:26	05:40	05:32
	17:28 15:40-15:45/5	18:23	19:10	21:01	21:46	22:05
29	08:28 16:21-16:52/31		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:21-16:53/32		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 17:01-17:03/2		07:26		05:37	
	17:33 16:20-16:54/34		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1158	738	89	167	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:44-20:01/17	07:44 18:52-18:58/6	07:37 16:38-16:40/2	08:26 14:59-15:37/38
	22:04	21:34	20:33	19:25	17:21 15:49-16:27/38	16:42
2	05:34	06:11	06:59 19:42-20:01/19	07:46 18:52-18:56/4	07:38 16:35-16:43/8	08:27 15:00-15:38/38
	22:04	21:32	20:31	19:23	17:19 15:49-16:27/38	16:41
3	05:35	06:12	07:00 19:42-20:01/19	07:48 18:53-18:54/1	07:40 16:32-16:44/12	08:29 14:59-15:38/39
	22:04	21:30	20:29	19:21	17:17 15:49-16:27/38	16:41
4	05:36	06:14	07:02 19:41-20:00/19	07:49	07:42 16:31-16:45/14	08:30 15:00-15:39/39
	22:03	21:29	20:27	19:19	17:16 15:48-16:27/39	16:40
5	05:37	06:15	07:03 19:41-19:58/17	07:51	07:44 16:31-16:44/13	08:31 15:00-15:39/39
	22:03	21:27	20:24	19:16	17:14 15:49-16:27/38	16:40
6	05:37	06:17	07:05 19:40-19:55/15	07:53	07:45 16:30-16:42/12	08:33 15:00-15:39/39
	22:02	21:25	20:22	19:14	17:12 15:49-16:27/38	16:39
7	05:38	06:18	07:07 19:41-19:54/13	07:54	07:47 16:30-16:41/11	08:34 15:01-15:40/39
	22:02	21:24	20:20	19:12	17:11 15:49-16:27/38	16:39
8	05:39	06:20	07:08 19:41-19:51/10	07:56	07:49 16:31-16:39/8	08:35 15:02-15:40/38
	22:01	21:22	20:18	19:10	17:09 15:50-16:26/36	16:39
9	05:40	06:21	07:10 19:42-19:49/7	07:57	07:51 16:31-16:38/7	08:36 15:02-15:41/39
	22:00	21:20	20:15	19:08	17:07 15:50-16:26/36	16:39
10	05:41	06:23	07:11 19:43-19:46/3	07:59	07:52 16:32-16:36/4	08:37 15:02-15:41/39
	22:00	21:18	20:13	19:05	17:06 15:51-16:26/35	16:38
11	05:42	06:24	07:13	08:01	07:54 16:33-16:35/2	08:38 15:03-15:41/38
	21:59	21:16	20:11	19:03	17:04 15:52-16:26/34	16:38
12	05:43	06:26	07:14	08:02	07:56 15:52-16:24/32	08:39 15:03-15:42/39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04	07:57 15:53-16:24/31	08:40 15:03-15:42/39
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:18	08:06	07:59 15:54-16:23/29	08:41 15:04-15:42/38
	21:57	21:11	20:04	18:57	17:00 15:12-15:17/5	16:38
15	05:46	06:30	07:19	08:07	08:01 15:55-16:22/27	08:42 15:05-15:43/38
	21:56	21:09	20:02	18:55	16:59 15:08-15:21/13	16:38
16	05:48	06:32	07:21	08:09	08:03 15:57-16:21/24	08:43 15:05-15:44/39
	21:55	21:07	20:00	18:53	16:57 15:06-15:24/18	16:38
17	05:49	06:34	07:22	08:11	08:04 15:58-16:20/22	08:44 15:06-15:44/38
	21:54	21:05	19:57	18:50	16:56 15:04-15:26/22	16:38
18	05:50	06:35	07:24	08:12	08:06 16:00-16:19/19	08:45 15:06-15:44/38
	21:53	21:03	19:55	18:48	16:55 15:03-15:28/25	16:39
19	05:51	06:37	07:25	08:14	08:08 16:02-16:16/14	08:45 15:07-15:45/38
	21:51	21:01	19:53	18:46	16:53 15:01-15:28/27	16:39
20	05:52	06:38	07:27	08:16	08:09 16:05-16:14/9	08:46 15:07-15:46/39
	21:50	20:59	19:50	18:44	16:52 15:01-15:30/29	16:39
21	05:54	06:40	07:29	08:18	08:11 15:00-15:31/31	08:47 15:07-15:45/38
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 17:03-17:16/13	08:12 15:00-15:32/32	08:47 15:08-15:46/38
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 17:00-17:19/19	08:14 14:59-15:32/33	08:48 15:08-15:47/39
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 18:59-19:04/5	08:23 16:57-17:21/24	08:16 14:59-15:33/34	08:48 15:10-15:48/38
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:56-19:06/10	07:24 15:56-16:22/26	08:17 14:59-15:34/35	08:48 15:10-15:48/38
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:54-19:07/13	07:26 15:54-16:24/30	08:19 14:58-15:34/36	08:49 15:10-15:48/38
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:53-19:08/15	07:28 15:52-16:24/32	08:20 14:59-15:35/36	08:49 15:10-15:48/38
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:52-19:05/13	07:30 15:51-16:25/34	08:22 14:59-15:36/37	08:49 15:10-15:49/39
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:50-19:56/6	07:41 18:52-19:03/11	07:31 15:51-16:25/34	08:23 14:59-15:36/37	08:49 15:11-15:49/38
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:48-19:59/11	07:43 18:51-19:00/9	07:33 15:50-16:26/36	08:25 14:59-15:37/38	08:50 15:11-15:50/39
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:45-19:59/14		07:35 15:50-16:27/37		08:50 15:12-15:50/38
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	215	296	1196	1192

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:36-15:57/21	08:24	07:32 17:51-17:59/8	07:23	06:20 20:36-20:38/2	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 15:37-15:57/20	08:23	07:30 17:52-18:01/9	07:21	06:18 20:35-20:40/5	05:36
	16:49	17:36	18:27	20:19	21:08	21:52
3	08:49 15:38-15:58/20	08:21	07:28 17:53-18:01/8	07:19	06:16 20:34-20:41/7	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49 15:38-15:57/19	08:19	07:26	07:17	06:15 20:34-20:43/9	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 15:40-15:58/18	08:18	07:24	07:14	06:13 20:34-20:44/10	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 16:18-16:20/2	08:16	07:21	07:12	06:11 20:34-20:45/11	05:33
	16:54 15:40-15:57/17	17:44	18:33	20:25	21:14	21:56
7	08:48 16:18-16:22/4	08:15	07:19	07:10	06:09 20:34-20:47/13	05:32
	16:55 15:41-15:58/17	17:45	18:35	20:27	21:16	21:57
8	08:48 16:17-16:23/6	08:13	07:17	07:08	06:08 20:34-20:48/14	05:32
	16:56 15:42-15:57/15	17:47	18:37	20:29	21:18	21:57
9	08:48 16:17-16:25/8	08:11	07:15	07:06	06:06 20:35-20:49/14	05:31
	16:58 15:44-15:57/13	17:49	18:39	20:30	21:19	21:58
10	08:47 16:16-16:26/10	08:09	07:13	07:03	06:04 20:36-20:48/12	05:31
	16:59 15:45-15:56/11	17:51	18:40	20:32	21:21	21:59
11	08:47 16:16-16:27/11	08:08	07:11	07:01	06:03 20:38-20:47/9	05:31
	17:00 15:47-15:55/8	17:53	18:42	20:34	21:22	22:00
12	08:46 16:16-16:29/13	08:06	07:08 18:18-18:19/1	06:59	06:01 20:53-20:54/1	05:30
	17:02 15:51-15:53/2	17:55	18:44	20:35	21:24 20:39-20:45/6	22:00
13	08:45 16:16-16:31/15	08:04	07:06 18:16-18:20/4	06:57	05:59 20:54-20:56/2	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45 16:16-16:32/16	08:02	07:04 18:15-18:22/7	06:55	05:58 20:55-20:57/2	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 16:16-16:34/18	08:00	07:02 18:14-18:24/10	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:16-16:35/19	07:58	06:59 18:14-18:26/12	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:16-16:37/21	07:57	06:57 18:14-18:27/13	06:48	05:54	05:29
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:16-16:39/23	07:55	06:55 18:14-18:28/14	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:16-16:39/23	07:53	06:53 18:16-18:27/11	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 16:17-16:40/23	07:51	06:50 18:18-18:25/7	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:16-16:40/24	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:17-16:40/23	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 16:17-16:41/24	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:18-16:41/23	07:43	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:50-16:51/1	07:41	06:39	06:32	05:43	05:31
	17:22 16:18-16:40/22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:51-16:54/3	07:39 17:52-17:54/2	06:37	06:30	05:42	05:31
	17:24 16:19-16:40/21	18:20	19:07	20:58	21:43	22:05
27	08:31 16:50-16:55/5	07:36 17:52-17:56/4	06:35	06:28	05:41	05:32
	17:26 16:20-16:39/19	18:21	19:09	21:00	21:45	22:05
28	08:30 16:51-16:57/6	07:34 17:51-17:57/6	06:32	06:26	05:40	05:32
	17:28 16:21-16:39/18	18:23	19:10	21:01	21:46	22:05
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33
	17:29 16:22-16:38/16		20:12	21:03	21:47	22:05
30	08:27 16:53-17:01/8		07:28	06:22	05:38	05:33
	17:31 16:25-16:37/12		20:14	21:05	21:48	22:05
31	08:26 16:55-17:01/6		07:26		05:37	
	17:33 16:27-16:35/8		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	639	12	104	0	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 20:49-20:56/7	06:57	07:44 18:56-18:58/2	07:37	08:26 15:58-16:09/11
	22:04	21:34	20:33	19:25	17:21	16:42 15:29-15:37/8
2	05:34	06:11 20:48-20:58/10	06:59	07:46	07:38	08:27 15:59-16:09/10
	22:04	21:32	20:31	19:23	17:19	16:41 15:29-15:39/10
3	05:35	06:12 20:46-20:59/13	07:00	07:48	07:40	08:29 16:00-16:08/8
	22:04	21:30	20:29	19:21	17:17	16:41 15:27-15:40/13
4	05:36	06:14 20:45-20:59/14	07:02	07:49	07:42	08:30 16:02-16:08/6
	22:03	21:29	20:27	19:19	17:16	16:40 15:27-15:42/15
5	05:37	06:15 20:45-20:58/13	07:03	07:51	07:44	08:31 16:03-16:07/4
	22:03	21:27	20:24	19:16	17:14	16:40 15:27-15:43/16
6	05:37	06:17 20:44-20:56/12	07:05	07:53	07:45	08:33 16:04-16:06/2
	22:02	21:25	20:22	19:14	17:12	16:39 15:26-15:43/17
7	05:38	06:18 20:44-20:55/11	07:07	07:54	07:47	08:34 15:27-15:45/18
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20 20:43-20:53/10	07:08	07:56	07:49	08:35 15:27-15:45/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 20:43-20:51/8	07:10	07:58	07:51	08:36 15:26-15:46/20
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23 20:44-20:50/6	07:11	07:59 18:29-18:34/5	07:52	08:37 15:26-15:46/20
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24 20:44-20:48/4	07:13	08:01 18:26-18:36/10	07:54 16:26-16:33/7	08:38 15:26-15:47/21
	21:59	21:16	20:11	19:03	17:04 15:58-16:07/9	16:38
12	05:43	06:26 20:45-20:46/1	07:14	08:02 18:24-18:33/9	07:56 16:24-16:32/8	08:39 15:27-15:48/21
	21:58	21:14	20:09	19:01	17:03 15:55-16:08/13	16:38
13	05:44	06:27	07:16	08:04 18:24-18:31/7	07:57 16:24-16:31/7	08:40 15:27-15:48/21
	21:57	21:13	20:06	18:59	17:01 15:54-16:10/16	16:38
14	05:45	06:29	07:18	08:06 18:24-18:29/5	07:59 16:23-16:29/6	08:41 15:27-15:49/22
	21:57	21:11	20:04	18:57	17:00 15:53-16:11/18	16:38
15	05:46	06:30	07:19	08:07 18:24-18:27/3	08:01 16:23-16:28/5	08:42 15:28-15:50/22
	21:56	21:09	20:02	18:55	16:59 15:53-16:12/19	16:38
16	05:48	06:32	07:21	08:09	08:03 16:24-16:27/3	08:43 15:28-15:50/22
	21:55	21:07	20:00	18:53	16:57 15:52-16:13/21	16:38
17	05:49	06:34	07:22	08:11	08:04 16:24-16:25/1	08:44 15:29-15:51/22
	21:54	21:05	19:57	18:50	16:56 15:52-16:14/22	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45 15:29-15:51/22
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:08 15:51-16:15/24	08:45 15:29-15:52/23
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09 15:52-16:15/23	08:46 15:30-15:53/23
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18	08:11 15:52-16:16/24	08:47 15:30-15:53/23
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19	08:12 15:53-16:16/23	08:47 15:31-15:53/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 19:02-19:08/6	08:21	08:14 15:52-16:16/24	08:48 15:31-15:54/23
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:00-19:10/10	08:23	08:16 15:53-16:16/23	08:48 15:32-15:55/23
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:57-19:11/14	07:24	08:17 15:54-16:15/21	08:48 15:32-15:55/23
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:57-19:10/13	07:26	08:19 15:54-16:14/20	08:49 15:33-15:55/22
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:56-19:08/12	07:28	08:20 15:55-16:13/18	08:49 15:33-15:55/22
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:55-19:05/10	07:30	08:22 15:56-16:12/16	08:49 15:34-15:55/21
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 21:07-21:08/1	06:52	07:41 18:55-19:03/8	07:31	08:23 15:56-16:11/15	08:49 15:34-15:56/22
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06 21:05-21:07/2	06:54	07:43 18:55-19:00/5	07:33	08:25 15:57-16:10/13	08:50 15:35-15:56/21
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 21:05-21:06/1	06:56		07:35		08:50 15:35-15:56/21
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	4	109	78	41	422	658

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
9	08:48 16:58	08:11 16:40-16:54/14 17:49 15:49-16:35/46	07:15 18:39	07:06 20:01-20:05/4 20:30	06:06 18:38-19:58/80 20:39-20:50/11 21:19 07:09-07:43/34	05:31 18:47-19:58/71 21:58 20:59-21:22/23
10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
27	08:31 15:46-16:55/69 17:26	07:36 18:21	06:35 19:09	06:28 18:43-19:53/70 21:00 07:07-07:47/40	05:41 18:41-19:58/77 21:45 20:59-21:13/14	05:32 18:53-20:01/68 22:05 21:04-21:26/22
28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:57/71 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:58/72 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	978	1031	0	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69	06:09 18:48-20:08/80 20:50-21:04/14	06:57 20:01-20:07/6	07:45	07:37 16:11-16:22/11	08:26 15:38-15:53/15
	22:04 21:05-21:27/22	21:34 07:20-07:50/30	20:33	19:25	17:21 15:19-16:04/45	16:42
2	05:35 18:52-20:02/70	06:11 18:48-20:09/81 20:50-21:03/13	06:59 20:00-20:04/4	07:46	07:38 16:09-16:24/15	08:27 15:41-15:52/11
	22:04 21:04-21:27/23	21:32 07:20-07:52/32	20:31	19:23	17:19 15:18-16:05/47	16:42
3	05:35 18:53-20:03/70	06:12 18:48-20:08/80 20:49-21:01/12	07:00 19:59-20:03/4	07:48	07:40 16:08-16:26/18	08:29
	22:04 21:05-21:27/22	21:30 07:19-07:52/33	20:29	19:21	17:18 15:18-16:05/47	16:41
4	05:36 18:53-20:03/70	06:14 18:47-20:07/80 20:49-20:59/10	07:02 19:58-20:00/2	07:49	07:42 15:17-16:26/69	08:30
	22:03 21:05-21:28/23	21:29 07:19-07:54/35	20:27	19:19	17:16	16:40
5	05:37 18:53-20:04/71	06:15 18:48-20:08/80 20:49-20:58/9	07:03	07:51	07:44 15:17-16:27/70	08:31
	22:03 21:06-21:28/22	21:27 07:18-07:54/36	20:24	19:17	17:14	16:40
6	05:38 18:52-20:04/72	06:17 18:48-20:07/79 20:49-20:56/7	07:05	07:53	07:45 15:17-16:28/71	08:33
	22:02 21:05-21:28/23	21:25 07:17-07:54/37	20:22	19:14	17:12	16:40
7	05:38 18:52-20:04/72	06:18 18:48-20:07/79 20:50-20:55/5	07:07	07:54	07:47 15:17-16:28/71	08:34
	22:02 21:05-21:28/23	21:24 07:17-07:55/38	20:20	19:12	17:11	16:39
8	05:39 18:52-20:05/73	06:20 18:48-20:06/78 20:50-20:53/3	07:08	07:56	07:49 15:17-16:29/72	08:35
	22:01 21:06-21:28/22	21:22 07:16-07:55/39	20:18	19:10	17:09	16:39
9	05:40 18:52-20:05/73	06:21 18:49-20:06/77	07:10	07:58	07:51 15:17-16:29/72	08:36
	22:00 21:06-21:28/22	21:20 07:16-07:56/40	20:15	19:08	17:08	16:39
10	05:41 18:52-20:05/73	06:23 18:48-20:05/77	07:11	07:59	07:52 15:17-16:30/73	08:37
	22:00 21:06-21:28/22	21:18 07:15-07:55/40	20:13	19:05	17:06	16:38
11	05:42 18:52-20:06/74	06:24 18:49-20:05/76	07:13	08:01	07:54 15:18-16:30/72	08:38
	21:59 21:07-21:27/20	21:16 07:16-07:56/40	20:11	19:03	17:04	16:38
12	05:43 18:52-20:06/74	06:26 18:49-20:04/75	07:14	08:02	07:56 15:17-16:29/72	08:39
	21:58 21:07-21:27/20	21:14 07:15-07:55/40	20:09	19:01	17:03	16:38
13	05:44 18:52-20:06/74	06:27 18:49-20:03/74	07:16	08:04	07:57 15:18-16:29/71	08:40
	21:57 21:07-21:26/19	21:13 07:14-07:55/41	20:06	18:59	17:01	16:38
14	05:45 18:51-20:07/76	06:29 18:50-20:02/72	07:18	08:06	07:59 15:18-16:29/71	08:41
	21:56 21:08-21:25/17	21:11 07:15-07:55/40	20:04	18:57	17:00	16:38
15	05:47 18:51-20:07/76	06:31 18:50-20:01/71	07:19	08:07	08:01 15:19-16:28/69	08:42
	21:56 21:08-21:24/16	21:09 07:14-07:54/40	20:02	18:55	16:59	16:38
16	05:48 18:51-20:07/76	06:32 18:51-20:00/69	07:21	08:09	08:03 16:06-16:27/21	08:43
	21:55 21:09-21:23/14	21:07 07:15-07:54/39	20:00	18:53	16:57 15:20-16:05/45	16:38
17	05:49 18:51-20:07/76	06:34 18:51-19:59/68	07:22	08:11 18:15-18:22/7	08:04 16:07-16:25/18	08:44
	21:54 21:09-21:22/13	21:05 07:15-07:53/38	19:57	18:50	16:56 15:21-16:04/43	16:39
18	05:50 18:50-20:07/77	06:35 18:52-19:58/66	07:24	08:13 18:14-18:20/6	08:06 16:08-16:24/16	08:45
	21:53 21:10-21:21/11	21:03 07:16-07:53/37	19:55	18:48	16:55 15:22-16:04/42	16:39
19	05:51 18:50-20:07/77	06:37 18:53-19:56/63	07:25	08:14 18:13-18:18/5	08:08 16:09-16:22/13	08:45
	21:51 21:10-21:20/10	21:01 07:16-07:52/36	19:53	18:46	16:54 15:22-16:03/41	16:39
20	05:53 18:50-20:09/79	06:38 18:54-19:55/61	07:27	08:16 18:13-18:17/4	08:09 16:10-16:21/11	08:46
	21:50 21:12-21:20/8	20:59 07:17-07:52/35	19:50	18:44	16:52 15:23-16:03/40	16:39
21	05:54 18:50-20:08/78	06:40 18:54-19:53/59	07:29	08:18 18:12-18:14/2	08:11 16:12-16:20/8	08:47
	21:49 21:13-21:18/5	20:57 07:17-07:50/33	19:48	18:42 16:40-16:46/6	16:51 15:24-16:02/38	16:40
22	05:55 18:50-20:08/78	06:41 18:56-19:52/56	07:30	08:19 16:34-16:51/17	08:12 16:15-16:19/4	08:47
	21:48 21:15-21:17/2	20:55 07:18-07:49/31	19:46	18:40	16:50 15:25-16:02/37	16:40
23	05:56 18:49-20:08/79	06:43 18:57-19:49/52	07:32	08:21 16:31-16:54/23	08:14 15:26-16:01/35	08:48
	21:47	20:53 07:19-07:47/28	19:44	18:38	16:49	16:41
24	05:58 18:50-20:09/79	06:45 18:59-19:48/49	07:33	08:23 16:29-16:57/28	08:16 15:27-16:00/33	08:48
	21:45	20:50 07:21-07:46/25	19:41	18:36	16:48	16:41
25	05:59 18:49-20:09/80	06:46 19:00-19:45/45	07:35	07:24 15:27-15:58/31	08:17 15:28-16:00/32	08:48
	21:44 07:34-07:37/3	20:48 07:22-07:43/21	19:39	17:34	16:47	16:42
26	06:01 18:49-20:09/80	06:48 19:02-19:43/41	07:37	07:26 15:25-16:00/35	08:19 15:29-15:58/29	08:49
	21:43 07:29-07:41/12	20:46 07:25-07:41/16	19:37	17:32	16:46	16:43
27	06:02 18:48-20:08/80 20:55-20:59/4	06:49 19:04-19:40/36	07:38	07:28 15:23-16:00/37	08:20 15:31-15:58/27	08:49
	21:41 07:28-07:44/16	20:44 07:28-07:36/8	19:35	17:30	16:45	16:44
28	06:03 18:49-20:09/80 20:54-21:02/8	06:51 19:07-19:37/30	07:40	07:30 15:22-16:01/39	08:22 15:33-15:57/24	08:49
	21:40 07:26-07:46/20	20:42	19:32	17:28	16:44	16:44
29	06:05 18:48-20:09/81 20:52-21:03/11	06:52 19:10-19:32/22	07:41	07:31 15:21-16:02/41	08:23 15:34-15:56/22	08:49
	21:38 07:24-07:47/23	20:40	19:30	17:27	16:44	16:45
30	06:06 18:48-20:08/80 20:51-21:03/12	06:54 19:19-19:24/5	07:43	07:33 15:20-16:03/43	08:25 15:36-15:55/19	08:50
	21:37 07:23-07:49/26	20:38	19:28	17:25	16:43	16:46
31	06:08 18:48-20:09/81 20:50-21:04/14	06:56 20:04-20:07/3		07:35 15:19-16:04/45		08:50
	21:35 07:22-07:50/28	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	16	369	1634	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 14:50-15:34/44	08:24 08:58-09:29/31	07:32	07:23 19:36-19:52/16	06:20 06:48-07:00/12	05:37 06:40-07:07/27
	16:48 12:37-13:24/47	17:35 17:03-17:05/2	18:25	20:17	21:06	21:51
2	08:50 14:51-15:35/44	08:23 08:57-09:29/32	07:30	07:21 19:34-19:53/19	06:18 06:45-07:03/18	05:36 06:41-07:07/26
	16:49 12:38-13:24/46	17:37 17:04-17:07/3	18:27	20:19	21:08	21:52
3	08:49 14:52-15:35/43	08:21 08:56-09:29/33	07:28	07:19 19:33-19:55/22	06:17 06:44-07:05/21	05:35 06:41-07:06/25
	16:50 12:39-13:25/46	17:38 17:06-17:07/1	18:28	20:20	21:10	21:53
4	08:49 14:52-15:35/43	08:19 08:57-09:31/34	07:26	07:17 19:33-19:57/24	06:15 06:42-07:06/24	05:34 06:43-07:07/24
	16:51 12:39-13:24/45	17:40	18:30	20:22	21:11	21:54
5	08:49 14:53-15:36/43	08:18 08:56-09:31/35	07:24	07:14 19:33-19:58/25	06:13 06:40-07:07/27	05:34 06:43-07:06/23
	16:53 12:40-13:24/44	17:42	18:32	20:24	21:13	21:55
6	08:49 14:53-15:35/42	08:16 08:56-09:31/35	07:22	07:12 19:32-19:56/24	06:11 06:40-07:08/28	05:33 06:44-07:06/22
	16:54 12:41-13:24/43	17:44	18:33	20:25	21:14	21:56
7	08:48 14:54-15:36/42	08:15 08:55-09:31/36	07:19	07:10 19:32-19:55/23	06:09 06:38-07:09/31	05:32 06:44-07:05/21
	16:55 12:42-13:24/42	17:46	18:35	20:27	21:16	21:56
8	08:48 14:54-15:36/42	08:13 08:56-09:32/36	07:17	07:08 19:32-19:54/22	06:08 06:37-07:09/32	05:32 06:45-07:05/20
	16:56 12:43-13:23/40	17:47	18:37	20:29	21:17	21:57
9	08:48 14:55-15:37/42	08:11 08:56-09:32/36	07:15	07:06 19:33-19:53/20	06:06 06:37-07:10/33	05:32 06:46-07:04/18
	16:58 12:45-13:24/39	17:49	18:39	20:30	21:19	21:58
10	08:47 14:55-15:37/42	08:09 08:56-09:31/35	07:13	07:03 19:34-19:52/18	06:04 06:36-07:10/34	05:31 06:47-07:04/17
	16:59 12:46-13:23/37	17:51	18:40	20:32	21:21	21:59
11	08:46 14:56-15:37/41	08:08 08:56-09:31/35	07:11	07:01 19:35-19:51/16	06:03 06:36-07:11/35	05:31 06:48-07:04/16
	17:00 12:47-13:22/35	17:53	18:42	20:34	21:22	22:00
12	08:46 14:57-15:37/40	08:06 08:57-09:31/34	07:08	06:59 19:36-19:48/12	06:01 06:35-07:11/36	05:30 06:49-07:03/14
	17:02 12:49-13:22/33	17:55	18:44	20:35	21:24	22:00
13	08:45 14:58-15:37/39	08:04 08:57-09:30/33	07:06	06:57 19:40-19:44/4	06:00 06:35-07:11/36	05:30 06:49-07:02/13
	17:03 12:51-13:21/30	17:56	18:45	20:37	21:25	22:01
14	08:44 14:58-15:37/39	08:02 08:58-09:29/31	07:04	06:55	05:58 06:34-07:11/37	05:30 06:50-07:02/12
	17:05 12:53-13:20/27	17:58	18:47	20:38	21:27	22:02
15	08:44 14:59-15:37/38	08:00 08:58-09:28/30	07:02	06:53	05:57 06:34-07:11/37	05:30 06:50-07:02/12
	17:06 12:55-13:18/23	18:00	18:49	20:40	21:28	22:02
16	08:43 15:00-15:37/37	07:58 08:59-09:27/28	06:59 18:25-18:26/1	06:50	05:55 06:35-07:12/37	05:30 06:51-07:01/10
	17:08 12:58-13:15/17	18:02	18:51	20:42	21:30	22:03
17	08:42 15:01-15:37/36	07:57 09:00-09:26/26	06:57 18:24-18:27/3	06:48	05:54 06:34-07:11/37	05:30 06:52-07:01/9
	17:09 13:07-13:10/3	18:04	18:52	20:43	21:31	22:03
18	08:41 15:02-15:37/35	07:55 09:02-09:24/22	06:55 18:25-18:29/4	06:46	05:52 06:34-07:11/37	05:30 06:53-07:01/8
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 15:03-15:36/33	07:53 09:04-09:21/17	06:53 18:26-18:31/5	06:44	05:51 06:35-07:11/36	05:30 06:53-07:00/7
	17:13	18:07	18:56	20:47	21:34	22:04
20	08:39 15:05-15:36/31	07:51 09:07-09:18/11	06:50	06:42	05:49 06:35-07:12/37	05:30 06:53-07:00/7
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 15:05-15:35/30	07:49	06:48	06:40	05:48 06:35-07:12/37	05:30 06:54-07:01/7
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 15:07-15:34/27	07:47	06:46	06:38	05:47 06:35-07:10/35	05:30 06:54-07:01/7
	17:17	18:13	19:01	20:52	21:38	22:05
23	08:36 15:09-15:33/24	07:45	06:44	06:36	05:46 06:35-07:10/35	05:30 06:54-07:01/7
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 15:12-15:32/20	07:43	06:41	06:34	05:45 06:36-07:10/34	05:31 06:54-07:02/8
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 15:14-15:30/16	07:41	06:39	06:32	05:43 06:36-07:10/34	05:31 06:54-07:03/9
	17:23 09:06-09:17/11	18:18	19:06	20:57	21:42	22:05
26	08:32 15:19-15:27/8	07:39	06:37	06:30	05:42 06:36-07:09/33	05:31 06:54-07:03/9
	17:24 09:04-09:20/16	18:20	19:07	20:58	21:43	22:05
27	08:31 09:02-09:22/20	07:36	06:35	06:28	05:41 06:37-07:09/32	05:32 06:54-07:04/10
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 09:01-09:24/23	07:34	06:32	06:26	05:40 06:38-07:10/32	05:32 06:53-07:05/12
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:00-09:25/25		07:30 19:42-19:47/5	06:24	05:39 06:39-07:09/30	05:33 06:53-07:06/13
	17:29		20:12	21:03	21:47	22:05
30	08:27 08:59-09:27/28		07:28 19:39-19:49/10	06:22	05:38 06:39-07:08/29	05:33 06:52-07:06/14
	17:31		20:14	21:05	21:48	22:04
31	08:26 08:58-09:27/29		07:26 19:37-19:50/13		05:37 06:39-07:08/29	
	17:33 17:01-17:03/2		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	616	41	245	985	427

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:52-07:07/15	06:09 06:45-07:21/36	06:57 19:34-19:50/16	07:45	07:37 08:26-09:01/35	08:26 14:38-15:19/41
	22:04	21:34	20:33	19:25	17:21	16:42 12:29-13:04/35
2	05:35 06:51-07:08/17	06:11 06:46-07:21/35	06:59 19:32-19:50/18	07:46	07:38 08:26-09:01/35	08:27 14:38-15:20/42
	22:04	21:32	20:31	19:23	17:19	16:42 12:29-13:06/37
3	05:35 06:51-07:09/18	06:12 06:46-07:20/34	07:00 19:31-19:52/21	07:48	07:40 08:26-09:02/36	08:29 14:38-15:20/42
	22:04	21:30	20:29	19:21	17:18	16:41 12:28-13:07/39
4	05:36 06:51-07:10/19	06:14 06:47-07:20/33	07:02 19:29-19:51/22	07:49	07:42 08:25-09:01/36	08:30 14:39-15:21/42
	22:03	21:29	20:27	19:19	17:16	16:40 12:28-13:08/40
5	05:37 06:51-07:11/20	06:15 06:48-07:19/31	07:03 19:29-19:52/23	07:51	07:44 08:25-09:01/36	08:31 14:39-15:21/42
	22:03	21:27	20:24	19:17	17:14	16:40 12:27-13:09/42
6	05:38 06:50-07:11/21	06:17 06:48-07:18/30	07:05 19:28-19:52/24	07:53	07:45 08:26-09:01/35	08:33 14:39-15:21/42
	22:02	21:25	20:22	19:14	17:12	16:40 12:27-13:10/43
7	05:38 06:49-07:12/23	06:18 06:49-07:18/29	07:07 19:28-19:53/25	07:54	07:47 08:26-09:00/34	08:34 14:40-15:23/43
	22:02	21:24	20:20	19:12	17:11	16:39 12:27-13:11/44
8	05:39 06:49-07:13/24	06:20 06:50-07:16/26	07:08 19:27-19:51/24	07:56	07:49 08:27-09:00/33	08:35 14:40-15:23/43
	22:01	21:22	20:18	19:10	17:09 16:36-16:39/3	16:39 12:27-13:12/45
9	05:40 06:49-07:14/25	06:21 06:52-07:15/23	07:10 19:28-19:49/21	07:58	07:50 08:28-09:00/32	08:36 14:40-15:23/43
	22:00	21:20	20:15	19:08	17:08 16:34-16:38/4	16:39 12:27-13:13/46
10	05:41 06:49-07:14/25	06:23 06:53-07:13/20	07:11 19:27-19:46/19	07:59	07:52 08:29-08:59/30	08:37 14:40-15:24/44
	22:00	21:18	20:13	19:05	17:06 16:33-16:36/3	16:38 12:27-13:13/46
11	05:42 06:48-07:15/27	06:24 06:55-07:12/17	07:13 19:28-19:45/17	08:01	07:54 08:30-08:59/29	08:38 14:40-15:24/44
	21:59	21:16	20:11	19:03	17:04 16:33-16:35/2	16:38 12:27-13:14/47
12	05:43 06:48-07:16/28	06:26 06:58-07:08/10	07:14 19:28-19:42/14	08:02	07:56 08:31-08:58/27	08:39 14:41-15:24/43
	21:58	21:14	20:09	19:01	17:03	16:38 12:27-13:15/48
13	05:44 06:48-07:17/29	06:27	07:16 19:30-19:40/10	08:04	07:57 08:32-08:57/25	08:40 14:41-15:25/44
	21:57	21:13	20:06	18:59	17:01	16:38 12:27-13:16/49
14	05:45 06:47-07:17/30	06:29	07:18 19:32-19:37/5	08:06	07:59 08:33-08:56/23	08:41 14:42-15:25/43
	21:56	21:11	20:04	18:57	17:00	16:38 12:27-13:16/49
15	05:47 06:47-07:18/31	06:31	07:19	08:07	08:01 08:35-08:55/20	08:42 14:42-15:26/44
	21:56	21:09	20:02	18:55	16:59	16:38 12:28-13:17/49
16	05:48 06:47-07:18/31	06:32	07:21	08:09	08:02 14:52-15:00/8	08:43 14:43-15:27/44
	21:55	21:07	20:00	18:53	16:57 08:37-08:53/16	16:38 12:28-13:18/50
17	05:49 06:46-07:19/33	06:34	07:22	08:11	08:04 14:48-15:04/16	08:44 14:43-15:27/44
	21:54	21:05	19:57	18:50	16:56 08:40-08:51/11	16:39 12:29-13:19/50
18	05:50 06:46-07:19/33	06:35	07:24	08:12	08:06 14:46-15:06/20	08:45 14:43-15:27/44
	21:52	21:03	19:55	18:48	16:55	16:39 12:28-13:18/50
19	05:51 06:46-07:20/34	06:37	07:25	08:14	08:07 14:43-15:07/24	08:45 14:44-15:28/44
	21:51	21:01	19:53	18:46	16:54	16:39 12:29-13:19/50
20	05:53 06:46-07:21/35	06:38	07:27	08:16	08:09 14:42-15:09/27	08:46 14:45-15:29/44
	21:50	20:59	19:50	18:44	16:52	16:40 12:30-13:20/50
21	05:54 06:46-07:21/35	06:40	07:29	08:18	08:11 14:41-15:11/30	08:47 14:45-15:29/44
	21:49	20:57	19:48	18:42	16:51	16:40 12:30-13:20/50
22	05:55 06:45-07:21/36	06:41	07:30	08:19 09:36-09:50/14	08:12 14:41-15:12/31	08:47 14:46-15:30/44
	21:48	20:55	19:46	18:40	16:50	16:40 12:31-13:21/50
23	05:57 06:45-07:21/36	06:43	07:32	08:21 09:34-09:52/18	08:14 14:39-15:12/33	08:48 14:46-15:30/44
	21:47	20:53	19:44	18:38	16:49	16:41 12:31-13:21/50
24	05:58 06:45-07:22/37	06:45	07:33 19:10-19:15/5	08:23 09:32-09:55/23	08:16 14:39-15:14/35	08:48 14:46-15:30/44
	21:45	20:50	19:41	18:36	16:48	16:41 12:31-13:21/50
25	05:59 06:45-07:22/37	06:46	07:35 19:08-19:12/4	07:24 08:31-08:56/25	08:17 14:39-15:15/36	08:48 14:47-15:31/44
	21:44	20:48	19:39	17:34	16:47 12:46-12:47/1	16:42 12:32-13:22/50
26	06:01 06:45-07:22/37	06:48	07:37 19:07-19:10/3	07:26 08:29-08:58/29	08:19 14:38-15:15/37	08:49 14:47-15:31/44
	21:43	20:46	19:37	17:32	16:46 12:36-12:53/17	16:43 12:33-13:23/50
27	06:02 06:45-07:23/38	06:49	07:38 19:07-19:08/1	07:28 08:28-08:58/30	08:20 14:38-15:16/38	08:49 14:48-15:32/44
	21:41	20:44	19:35	17:30	16:45 12:34-12:57/23	16:44 12:33-13:23/50
28	06:03 06:45-07:22/37	06:51	07:40	07:30 08:27-08:59/32	08:22 14:38-15:17/39	08:49 14:48-15:32/44
	21:40	20:42	19:32	17:28	16:44 12:33-12:59/26	16:44 12:34-13:23/49
29	06:05 06:45-07:22/37	06:52	07:41	07:31 08:26-09:00/34	08:23 14:38-15:17/39	08:49 14:48-15:32/44
	21:38	20:40	19:30	17:27	16:44 12:31-13:01/30	16:45 12:34-13:23/49
30	06:06 06:46-07:22/36	06:54 19:41-19:45/4	07:43	07:33 08:26-09:00/34	08:25 14:38-15:19/41	08:50 14:49-15:33/44
	21:37	20:38	19:28	17:25	16:43 12:30-13:03/33	16:46 12:35-13:23/48
31	06:08 06:46-07:22/36	06:56 19:36-19:48/12		07:35 08:26-09:01/35		08:50 14:49-15:33/44
	21:35	20:35		17:23		16:47 12:36-13:24/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	920	340	272	274	1089	2799

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	08:50	11:08-12:05/57	08:24		07:32	07:55-08:07/12	07:23		06:20		05:36	
	16:48		17:35		18:25		20:17		21:06		21:51	
2	08:50	11:09-12:06/57	08:22		07:30	07:53-08:09/16	07:21		06:18		05:36	
	16:49		17:36		18:26		20:19		21:08		21:52	
3	08:49	11:10-12:06/56	08:21		07:28	07:51-08:10/19	07:19		06:16		05:35	
	16:50		17:38		18:28		20:20		21:09		21:53	
4	08:49	11:10-12:06/56	08:19		07:26	07:49-08:11/22	07:16		06:15		05:34	
	16:51		17:40		18:30		20:22		21:11		21:54	
5	08:49	11:11-12:06/55	08:18		07:24	07:46-08:10/24	07:14		06:13		05:33	
	16:52		17:42		18:32		20:24		21:13		21:55	
6	08:49	11:11-12:06/55	08:16		07:21	07:44-08:11/27	07:12		06:11		05:33	
	16:54		17:44		18:33		20:25		21:14		21:56	
7	08:48	11:12-12:06/54	08:15		07:19	07:42-08:11/29	07:10		06:09		05:32	
	16:55		17:45		18:35		20:27		21:16		21:56	
8	08:48	11:13-12:05/52	08:13		07:17	07:40-08:11/31	07:08		06:08		05:32	
	16:56		17:47		18:37		20:29		21:17		21:57	
9	08:47	11:14-12:06/52	08:11		07:15	07:38-08:12/34	07:05		06:06		05:31	
	16:57		17:49		18:38		20:30		21:19		21:58	
10	08:47	11:15-12:05/50	08:09		07:13	07:35-08:10/35	07:03		06:04		05:31	
	16:59		17:51		18:40		20:32		21:21		21:59	
11	08:46	11:16-12:05/49	08:08		07:10	07:33-08:10/37	07:01		06:03	06:28-06:29/1	05:30	06:00-06:01/1
	17:00		17:53		18:42		20:33		21:22		22:00	
12	08:46	11:18-12:05/47	08:06		07:08	07:31-08:10/39	06:59		06:01	06:26-06:29/3	05:30	05:59-06:00/1
	17:02		17:54		18:44		20:35		21:24		22:00	
13	08:45	11:19-12:04/45	08:04		07:06	07:29-08:09/40	06:57		05:59	06:25-06:29/4	05:30	05:59-06:00/1
	17:03		17:56		18:45		20:37		21:25		22:01	
14	08:44	11:20-12:04/44	08:02		07:04	07:26-08:07/41	06:55		05:58	06:23-06:28/5	05:30	05:59-06:00/1
	17:05		17:58		18:47		20:38		21:27		22:02	
15	08:44	11:21-12:03/42	08:00		07:02	07:24-08:06/42	06:52		05:56	06:22-06:28/6	05:30	05:59-06:00/1
	17:06		18:00		18:49		20:40		21:28		22:02	
16	08:43	11:22-12:02/40	07:58		06:59	07:22-08:04/42	06:50		05:55	06:21-06:28/7	05:29	05:59-06:00/1
	17:08		18:02		18:50		20:42		21:30		22:03	
17	08:42	11:24-12:01/37	07:56		06:57	07:19-08:01/42	06:48		05:53	06:19-06:27/8	05:29	05:59-06:00/1
	17:09		18:03		18:52		20:43		21:31		22:03	
18	08:41	11:26-12:00/34	07:55		06:55	07:17-07:59/42	06:46		05:52	06:18-06:26/8	05:29	05:59-06:00/1
	17:11		18:05		18:54		20:45		21:33		22:03	
19	08:40	11:28-11:58/30	07:53		06:53	07:17-07:54/37	06:44		05:51	06:17-06:25/8	05:29	05:59-06:00/1
	17:12		18:07		18:55		20:47		21:34		22:04	
20	08:39	11:31-11:56/25	07:51		06:50	07:16-07:53/37	06:42		05:49	06:19-06:24/5	05:29	05:59-06:00/1
	17:14		18:09		18:57		20:48		21:35		22:04	
21	08:38	11:33-11:52/19	07:49		06:48	07:16-07:52/36	06:40		05:48		05:30	06:00-06:01/1
	17:16		18:11		18:59		20:50		21:37		22:04	
22	08:37	11:39-11:47/8	07:47		06:46	07:16-07:52/36	06:38		05:47		05:30	06:00-06:01/1
	17:17		18:12		19:00		20:52		21:38		22:05	
23	08:36		07:45		06:43	07:16-07:51/35	06:36		05:45		05:30	06:00-06:01/1
	17:19		18:14		19:02		20:53		21:40		22:05	
24	08:35		07:43		06:41	07:16-07:51/35	06:34		05:44		05:30	06:00-06:01/1
	17:21		18:16		19:04		20:55		21:41		22:05	
25	08:34		07:40		06:39	07:16-07:49/33	06:32		05:43		05:31	06:01-06:02/1
	17:22		18:18		19:05		20:56		21:42		22:05	
26	08:32		07:38		06:37	07:17-07:48/31	06:30		05:42		05:31	06:01-06:02/1
	17:24		18:19		19:07		20:58		21:43		22:05	
27	08:31		07:36	08:00-08:03/3	06:34	07:18-07:47/29	06:28		05:41		05:31	06:02-06:03/1
	17:26		18:21		19:09		21:00		21:45		22:05	
28	08:30		07:34	07:57-08:05/8	06:32	07:18-07:44/26	06:26		05:40		05:32	06:02-06:03/1
	17:27		18:23		19:10		21:01		21:46		22:05	
29	08:28				07:30	08:20-08:42/22	06:24		05:39		05:32	06:03-06:04/1
	17:29				20:12		21:03		21:47		22:05	
30	08:27				07:28	08:22-08:40/18	06:22		05:38		05:33	06:03-06:04/1
	17:31				20:14		21:05		21:48		22:04	
31	08:25				07:25	08:25-08:36/11			05:37			
	17:33				20:15				21:49			
Potential sun hours	262		279		367		415		482		495	
Sum of minutes with flicker	964		11		960		0		55		20	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:05/1	06:09 06:37-06:39/2	06:57	07:44 08:09-08:48/39	07:36	08:26 10:58-11:47/49
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:05/1	06:10	06:59	07:46 08:11-08:49/38	07:38	08:27 10:58-11:48/50
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:12-08:48/36	07:40	08:29 10:57-11:49/52
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02	07:49 08:14-08:48/34	07:42	08:30 10:58-11:50/52
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:48/32	07:43	08:31 10:58-11:51/53
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05	07:52 08:17-08:47/30	07:45	08:33 10:57-11:52/55
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:47/28	07:47	08:34 10:58-11:53/55
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:19	07:08	07:56 08:21-08:47/26	07:49	08:35 10:58-11:54/56
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:45/23	07:50	08:36 10:58-11:54/56
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41	06:23	07:11	07:59 08:24-08:44/20	07:52	08:37 10:58-11:55/57
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:26-08:43/17	07:54	08:38 10:58-11:55/57
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 08:17-08:27/10	08:02 08:28-08:42/14	07:56	08:39 10:58-11:56/58
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 08:14-08:31/17	08:04 08:29-08:39/10	07:57	08:40 10:58-11:57/59
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 08:10-08:32/22	08:06 08:31-08:37/6	07:59	08:41 10:59-11:57/58
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 08:09-08:34/25	08:07	08:01	08:42 10:59-11:58/59
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 08:07-08:35/28	08:09	08:02	08:43 10:59-11:59/60
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 08:05-08:36/31	08:11	08:04	08:44 11:00-12:00/60
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 08:04-08:36/32	08:12	08:06	08:45 11:00-12:00/60
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 08:03-08:37/34	08:14	08:07	08:45 11:00-12:00/60
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 08:03-08:38/35	08:16	08:09 11:14-11:22/8	08:46 11:01-12:01/60
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 08:01-08:37/36	08:17	08:11 11:09-11:28/19	08:47 11:01-12:01/60
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 08:01-08:38/37	08:19	08:12 11:07-11:32/25	08:47 11:02-12:02/60
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 08:00-08:37/37	08:21	08:14 11:04-11:34/30	08:48 11:02-12:02/60
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:35/6	06:44	07:33 08:00-08:37/37	08:23	08:16 11:03-11:37/34	08:48 11:02-12:02/60
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:36/8	06:46	07:35 07:59-08:41/42	07:24	08:17 11:02-11:39/37	08:48 11:04-12:03/59
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:37/8	06:48	07:36 08:01-08:43/42	07:26	08:19 11:01-11:40/39	08:49 11:04-12:04/60
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:38/8	06:49	07:38 08:03-08:46/43	07:28	08:20 11:00-11:42/42	08:49 11:04-12:04/60
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:39/7	06:51	07:40 08:04-08:46/42	07:30	08:22 11:00-11:44/44	08:49 11:05-12:04/59
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:39/6	06:52	07:41 08:06-08:47/41	07:31	08:23 10:59-11:44/45	08:49 11:05-12:04/59
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:39/5	06:54	07:43 08:07-08:47/40	07:33	08:25 10:59-11:46/47	08:50 11:06-12:05/59
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:07 06:36-06:39/3	06:55		07:35		08:50 11:07-12:05/58
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	53	2	631	353	370	1780

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT19 - VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 11:31-12:19/48	08:24	07:32 08:22-08:39/17	07:23 07:46-08:10/24 18:12-18:47/35	06:20	05:36 06:14-06:46/32
	16:48	17:35	18:25 07:58-08:14/16	20:17 19:33-19:49/16	21:06	21:50
2	08:49 11:31-12:19/48	08:22	07:30 08:24-08:37/13	07:21 07:43-08:09/26 18:14-18:46/32	06:18	05:36 06:14-06:47/33
	16:49	17:36	18:26 07:59-08:13/14	20:19 19:33-19:48/15	21:08	21:52
3	08:49 11:31-12:19/48	08:21	07:28 08:29-08:31/2	07:19 07:43-08:08/25 18:16-18:43/27	06:16	05:35 06:14-06:47/33
	16:50	17:38	18:28 08:00-08:12/12	20:20 19:34-19:47/13	21:09	21:53
4	08:49 11:32-12:19/47	08:19	07:26 17:34-17:39/5	07:17 07:43-08:07/24 18:19-18:41/22	06:15	05:34 06:13-06:46/33
	16:51	17:40	18:30 08:02-08:10/8	20:22 19:36-19:45/9	21:11	21:54
5	08:49 11:34-12:19/45	08:18	07:24 17:27-17:45/18	07:14 07:44-08:06/22	06:13	05:34 06:14-06:47/33
	16:53	17:42	18:32 07:46-07:50/4	20:24 18:23-18:37/14	21:13	21:55
6	08:49 11:34-12:19/45	08:16	07:21 17:23-17:48/25	07:12 07:44-08:03/19	06:11	05:33 06:14-06:47/33
	16:54	17:44	18:33 07:44-07:53/9	20:25	21:14	21:55
7	08:48 11:35-12:19/44	08:14	07:19 17:21-17:51/30	07:10 07:46-08:01/15	06:09	05:32 06:14-06:48/34
	16:55	17:45	18:35 07:42-07:55/13	20:27	21:16	21:56
8	08:48 11:36-12:19/43	08:13	07:17 17:19-17:53/34	07:08	06:08	05:32 06:15-06:48/33
	16:56	17:47	18:37 07:40-07:56/16	20:29	21:17	21:57
9	08:47 11:37-12:19/42	08:11	07:15 17:16-17:53/37	07:05	06:06	05:31 06:14-06:48/34
	16:58	17:49	18:39 07:38-07:57/19	20:30	21:19	21:58
10	08:47 11:38-12:19/41	08:09	07:13 17:15-17:55/40	07:03	06:04	05:31 06:15-06:48/33
	16:59	17:51	18:40 07:35-07:56/21	20:32	21:20	21:59
11	08:46 11:39-12:18/39	08:08	07:10 17:14-17:56/42	07:01	06:03	05:31 06:15-06:49/34
	17:00	17:53	18:42 07:34-07:56/22	20:33	21:22	22:00
12	08:46 11:40-12:17/37	08:06	07:08 17:13-17:57/44	06:59	06:01	05:30 06:15-06:48/33
	17:02	17:54	18:44 07:34-07:56/22	20:35	21:24	22:00
13	08:45 11:42-12:18/36	08:04 08:28-08:36/8	07:06 17:11-17:57/46	06:57	05:59	05:30 06:15-06:49/34
	17:03	17:56	18:45 07:34-07:56/22	20:37	21:25	22:01
14	08:44 11:43-12:17/34	08:02 08:26-08:39/13	07:04 17:10-17:58/48	06:55	05:58	05:30 06:15-06:49/34
	17:05	17:58	18:47 07:34-07:54/20	20:38	21:27	22:01
15	08:44 11:45-12:16/31	08:00 08:24-08:41/17	07:02 17:10-17:59/49	06:52	05:56	05:30 06:16-06:49/33
	17:06	18:00	18:49 07:35-07:54/19	20:40	21:28	22:02
16	08:43 11:46-12:15/29	07:58 08:22-08:42/20	06:59 17:09-17:59/50	06:50	05:55	05:30 06:16-06:49/33
	17:08	18:02	18:50 07:36-07:52/16	20:42	21:30	22:02
17	08:42 11:48-12:13/25	07:56 08:21-08:43/22	06:57 17:08-17:59/51	06:48	05:53 06:28-06:29/1	05:29 06:16-06:50/34
	17:09	18:03	18:52 07:37-07:51/14	20:43	21:31	22:03
18	08:41 11:51-12:11/20	07:55 08:20-08:44/24	06:55 17:07-17:59/52	06:46	05:52 06:23-06:34/11	05:29 06:16-06:50/34
	17:11	18:05	18:54 07:39-07:47/8	20:45	21:32	22:03
19	08:40 11:54-12:08/14	07:53 08:19-08:45/26	06:53 17:07-17:59/52	06:44 07:07-07:08/1	05:51 06:21-06:37/16	05:29 06:16-06:50/34
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 08:18-08:45/27	06:50 17:07-17:59/52	06:42 07:05-07:08/3	05:49 06:20-06:38/18	05:30 06:16-06:50/34
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49 08:18-08:45/27	06:48 17:06-17:58/52	06:40 07:03-07:09/6	05:48 06:19-06:40/21	05:30 06:16-06:50/34
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 08:18-08:45/27	06:46 17:07-17:58/51	06:38 07:01-07:09/8	05:47 06:17-06:40/23	05:30 06:17-06:51/34
	17:17	18:12 08:10-08:12/2	19:00	20:52	21:38	22:04
23	08:36	07:45 08:18-08:45/27	06:44 17:07-17:58/51	06:36 06:59-07:08/9	05:46 06:16-06:41/25	05:30 06:17-06:51/34
	17:19	18:14 08:08-08:14/6	19:02	20:53	21:39	22:05
24	08:35	07:43 08:18-08:45/27	06:41 17:06-17:56/50	06:34 06:57-07:07/10	05:44 06:16-06:42/26	05:30 06:17-06:51/34
	17:21	18:16 08:06-08:15/9	19:04	20:55	21:41	22:05
25	08:33	07:40 08:19-08:44/25	06:39 07:01-07:04/3 17:07-17:56/49	06:32 06:55-07:06/11	05:43 06:15-06:42/27	05:31 06:18-06:52/34
	17:22	18:18 08:04-08:15/11	19:05 18:39-18:40/1	20:56	21:42	22:05
26	08:32	07:38 08:19-08:44/25	06:37 06:59-07:07/8 17:07-17:55/48	06:30 06:56-07:05/9	05:42 06:15-06:43/28	05:31 06:18-06:52/34
	17:24	18:19 08:02-08:16/14	19:07 18:37-18:42/5	20:58	21:43	22:05
27	08:31	07:36 08:20-08:43/23	06:34 06:57-07:09/12 17:08-17:55/47	06:28 06:58-07:02/4	05:41 06:14-06:44/30	05:32 06:19-06:52/33
	17:26	18:21 08:00-08:16/16	19:09 18:36-18:44/8	21:00	21:45	22:05
28	08:30	07:34 08:20-08:41/21	06:32 06:55-07:10/15 17:08-17:53/45	06:26	05:40 06:14-06:44/30	05:32 06:18-06:52/34
	17:28	18:23 07:57-08:15/18	19:10 18:34-18:45/11	21:01	21:46	22:05
29	08:28		07:30 07:52-08:10/18 18:09-18:52/43	06:24	05:39 06:15-06:45/30	05:33 06:19-06:53/34
	17:29		20:12 19:33-19:47/14	21:03	21:47	22:05
30	08:27		07:28 07:50-08:10/20 18:10-18:51/41	06:22	05:38 06:14-06:45/31	05:33 06:19-06:52/33
	17:31		20:14 19:33-19:49/16	21:05	21:48	22:04
31	08:25		07:25 07:48-08:10/22 18:11-18:50/39		05:37 06:14-06:46/32	
	17:33		20:15 19:33-19:50/17		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	716	435	1668	399	349	1006

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT19 - VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:19-06:53/34 22:04	06:09 21:34	06:57 20:33	07:44 17:51-18:36/45 19:25 08:13-08:35/22	07:36 17:21	08:26 11:21-12:00/39 16:42
2	05:34 06:19-06:53/34 22:04	06:11 21:32	06:59 20:31	07:46 17:52-18:36/44 19:23 08:13-08:35/22	07:38 17:19	08:27 11:21-12:02/41 16:41
3	05:35 06:19-06:53/34 22:03	06:12 21:30	07:00 20:29	07:48 17:52-18:33/41 19:21 08:12-08:34/22	07:40 17:17	08:29 11:20-12:02/42 16:41
4	05:36 06:20-06:54/34 22:03	06:13 21:29	07:02 20:27	07:49 17:54-18:32/38 19:19 08:14-08:34/20	07:42 17:16	08:30 11:21-12:04/43 16:40
5	05:37 06:20-06:54/34 22:03	06:15 21:27	07:03 07:43-07:58/15 20:24	07:51 17:55-18:30/35 19:16 08:16-08:33/17	07:43 17:14	08:31 11:20-12:04/44 16:40
6	05:37 06:20-06:53/33 22:02	06:17 21:25	07:05 07:40-07:59/19 20:22	07:52 17:56-18:28/32 19:14 08:17-08:31/14	07:45 17:12	08:33 11:20-12:05/45 16:39
7	05:38 06:20-06:54/34 22:02	06:18 21:23	07:06 07:39-08:01/22 20:20 18:18-18:32/14	07:54 17:58-18:25/27 19:12 08:19-08:30/11	07:47 17:11	08:34 11:21-12:07/46 16:39
8	05:39 06:21-06:54/33 22:01	06:20 21:22	07:08 07:37-08:01/24 18:13-18:35/22 20:18 19:31-19:39/8	07:56 18:01-18:23/22 19:10 08:21-08:28/7	07:49 17:09	08:35 11:21-12:07/46 16:39
9	05:40 06:21-06:54/33 22:00	06:21 21:20	07:10 07:37-08:02/25 18:10-18:37/27 20:15 19:29-19:41/12	07:57 18:04-18:18/14 19:08 08:38-08:41/3	07:50 17:07	08:36 11:21-12:08/47 16:39
10	05:41 06:21-06:54/33 22:00	06:23 21:18	07:11 07:36-08:02/26 18:07-18:39/32 20:13 19:27-19:41/14	07:59 08:35-08:45/10 19:05	07:52 17:06	08:37 11:21-12:08/47 16:38
11	05:42 06:22-06:54/32 21:59	06:24 21:16	07:13 07:38-08:02/24 18:06-18:40/34 20:11 19:26-19:42/16	08:01 09:00-09:09/9 19:03 08:33-08:47/14	07:54 17:04	08:38 11:21-12:09/48 16:38
12	05:43 06:22-06:54/32 21:58	06:26 21:14	07:14 07:39-08:01/22 18:03-18:41/38 20:09 19:24-19:42/18	08:02 08:57-09:12/15 19:01 08:32-08:48/16	07:56 17:03	08:39 11:21-12:09/48 16:38
13	05:44 06:23-06:54/31 21:57	06:27 21:12	07:16 07:41-08:01/20 18:02-18:42/40 20:06 19:24-19:40/16	08:04 08:54-09:13/19 18:59 08:31-08:48/17	07:57 17:01	08:40 11:21-12:10/49 16:38
14	05:45 06:23-06:54/31 21:56	06:29 21:11	07:17 07:42-08:00/18 17:59-18:42/43 20:04 19:24-19:37/13	08:06 08:53-09:14/21 18:57 08:31-08:48/17	07:59 17:00	08:41 11:21-12:11/50 16:38
15	05:46 06:23-06:54/31 21:55	06:30 21:09	07:19 07:44-07:59/15 17:58-18:43/45 20:02 19:24-19:35/11	08:07 08:52-09:15/23 18:55 08:33-08:48/15	08:01 16:59	08:42 11:22-12:12/50 16:38
16	05:48 06:24-06:53/29 21:54	06:32 07:05-07:10/5 21:07	07:21 07:45-07:57/12 17:57-18:43/46 19:59 19:24-19:33/9	08:09 08:51-09:16/25 18:52 08:35-08:48/13	08:02 16:57	08:43 11:22-12:12/50 16:38
17	05:49 06:24-06:53/29 21:53	06:34 07:02-07:12/10 21:05	07:22 07:47-07:56/9 17:56-18:44/48 19:57 19:25-19:31/6	08:11 08:50-09:16/26 18:50 08:36-08:46/10	08:04 16:56	08:44 11:23-12:13/50 16:38
18	05:50 06:25-06:52/27 21:52	06:35 07:02-07:13/11 21:03	07:24 07:49-07:53/4 17:54-18:43/49 19:55 19:26-19:28/2	08:12 08:49-09:16/27 18:48 08:38-08:46/8	08:06 16:55	08:45 11:23-12:13/50 16:39
19	05:51 06:25-06:52/27 21:51	06:37 07:03-07:13/10 21:01	07:25 17:54-18:44/50 19:53	08:14 08:49-09:17/28 18:46 08:40-08:45/5	08:07 16:53	08:45 11:23-12:14/51 16:39
20	05:52 06:27-06:52/25 21:50	06:38 07:05-07:14/9 20:59	07:27 17:53-18:44/51 19:50	08:16 08:49-09:17/28 18:44	08:09 16:52	08:46 11:24-12:15/51 16:39
21	05:54 06:27-06:51/24 21:49	06:40 07:06-07:13/7 20:57	07:28 17:52-18:43/51 19:48	08:17 08:49-09:16/27 18:42	08:11 16:51	08:46 11:24-12:15/51 16:40
22	05:55 06:28-06:50/22 21:48	06:41 07:08-07:13/5 20:55	07:30 17:52-18:44/52 19:46	08:19 08:49-09:15/26 18:40	08:12 16:50	08:47 11:25-12:16/51 16:40
23	05:56 06:29-06:49/20 21:46	06:43 07:09-07:12/3 20:52	07:32 17:51-18:43/52 19:44	08:21 08:50-09:15/25 18:38	08:14 11:30-11:44/14 16:49	08:48 11:25-12:16/51 16:41
24	05:58 06:31-06:48/17 21:45	06:44 20:50	07:33 17:51-18:43/52 19:41	08:23 08:50-09:14/24 18:36	08:15 11:28-11:48/20 16:48	08:48 11:25-12:16/51 16:41
25	05:59 06:33-06:46/13 21:44	06:46 20:48	07:35 17:50-18:42/52 19:39 08:24-08:27/3	07:24 07:51-08:14/23 17:34	08:17 11:26-11:51/25 16:47	08:48 11:27-12:17/50 16:42
26	06:00 06:35-06:43/8 21:42	06:48 20:46	07:36 17:50-18:41/51 19:37 08:20-08:31/11	07:26 07:53-08:12/19 17:32	08:19 11:24-11:53/29 16:46	08:49 11:27-12:17/50 16:43
27	06:02 21:41	06:49 20:44	07:38 17:51-18:41/50 19:34 08:18-08:33/15	07:28 07:54-08:10/16 17:30	08:20 11:24-11:55/31 16:45	08:49 11:27-12:17/50 16:43
28	06:03 21:40	06:51 20:42	07:40 17:50-18:40/50 19:32 08:16-08:34/18	07:30 07:56-08:08/12 17:28	08:22 11:23-11:57/34 16:44	08:49 11:28-12:17/49 16:44
29	06:05 21:38	06:52 20:40	07:41 17:51-18:39/48 19:30 08:15-08:35/20	07:31 07:59-08:04/5 17:26	08:23 11:22-11:58/36 16:43	08:49 11:28-12:18/50 16:45
30	06:06 21:37	06:54 20:38	07:43 17:50-18:37/47 19:28 08:14-08:36/22	07:33 17:25	08:25 11:22-11:59/37 16:43	08:49 11:29-12:18/49 16:46
31	06:08 21:35	06:55 20:35	 	07:35 17:23	 	08:49 11:30-12:18/48 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	734	60	1513	959	226	1487

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:05-16:14/9 13:09-13:47/38	08:24 14:19-14:52/33	07:32 17:40-17:59/19	07:23 19:11-19:50/39	06:20	05:36
	16:48 13:48-14:59/71	17:35	18:25	20:17	21:06	21:51
2	08:50 16:05-16:15/10 13:10-13:47/37	08:23 14:22-14:49/27	07:30 17:39-18:01/22	07:21 19:11-19:50/39	06:18	05:36
	16:49 13:48-14:59/71	17:36	18:26	20:19	21:08	21:52
3	08:49 16:06-16:17/11 13:11-13:47/36	08:21 14:27-14:45/18	07:28 17:39-18:03/24	07:19 19:10-19:51/41	06:16	05:35 06:03-06:05/2
	16:50 13:49-15:00/71	17:38	18:28	20:20	21:10	21:53
4	08:49 16:05-16:17/12 13:12-13:46/34	08:19	07:26 17:38-18:05/27	07:17 19:10-19:51/41	06:15	05:34 06:02-06:06/4
	16:51 13:49-15:00/71	17:40	18:30	20:22	21:11	21:54
5	08:49 16:06-16:19/13 13:14-13:46/32	08:18	07:24 17:37-18:06/29	07:14 19:10-19:50/40	06:13	05:33 06:02-06:07/5
	16:52 13:50-15:00/70	17:42	18:32	20:24	21:13	21:55
6	08:49 16:05-16:20/15 13:14-13:45/31	08:16	07:21 17:37-18:07/30	07:12 19:09-19:49/40	06:11	05:33 06:01-06:07/6
	16:54 13:50-15:00/70	17:44	18:33	20:25	21:14	21:56
7	08:48 16:06-16:22/16 13:17-13:45/28	08:15	07:19 17:37-18:07/30	07:10 19:09-19:49/40	06:09	05:32 06:01-06:08/7
	16:55 13:51-15:01/70	17:45	18:35	20:27	21:16	21:56
8	08:48 16:06-16:22/16 13:18-13:43/25	08:13	07:17 17:37-18:07/30	07:08 19:10-19:48/38	06:08	05:32 06:01-06:10/9
	16:56 13:51-15:01/70	17:47	18:37	20:29	21:17	21:57
9	08:48 16:06-16:25/19 13:21-13:43/22	08:11	07:15 17:37-18:06/29	07:05 19:10-19:48/38	06:06	05:31 06:00-06:09/9
	16:58 13:52-15:02/70	17:49	18:39	20:30	21:19	21:58
10	08:47 16:06-16:26/20 13:23-13:41/18	08:09	07:13 17:37-18:05/28	07:03 19:11-19:47/36	06:04	05:31 06:00-06:10/10
	16:59 13:52-15:02/70	17:51	18:40	20:32	21:21	21:59
11	08:46 16:06-16:27/21 13:27-13:37/10	08:08	07:10 17:38-18:04/26	07:01 19:11-19:45/34	06:03	05:31 06:00-06:11/11
	17:00 13:53-15:01/68	17:53	18:42	20:34	21:22	22:00
12	08:46 16:07-16:29/22	08:06	07:08 17:39-18:03/24	06:59 19:11-19:44/33	06:01	05:30 05:59-06:11/12
	17:02 13:54-15:02/68	17:54	18:44	20:35	21:24	22:00
13	08:45 16:07-16:31/24	08:04	07:06 17:40-18:01/21	06:57 19:13-19:43/30	05:59 20:55-20:56/1	05:30 05:59-06:11/12
	17:03 13:55-15:02/67	17:56	18:45	20:37	21:25	22:01
14	08:45 16:07-16:32/25	08:02	07:04 17:42-17:59/17	06:55 19:14-19:41/27	05:58 20:56-20:57/1	05:30 05:59-06:12/13
	17:05 13:55-15:02/67	17:58	18:47	20:38	21:27	22:02
15	08:44 16:07-16:34/27	08:00	07:02 17:45-17:56/11	06:52 19:16-19:40/24	05:56	05:30 05:59-06:12/13
	17:06 13:56-15:02/66	18:00	18:49	20:40	21:28	22:02
16	08:43 16:08-16:35/27	07:58	06:59	06:50 19:18-19:37/19	05:55	05:30 05:59-06:13/14
	17:08 13:57-15:02/65	18:02	18:50	20:42	21:30	22:03
17	08:42 16:08-16:36/28	07:57	06:57	06:48 19:20-19:34/14	05:53	05:29 05:59-06:13/14
	17:09 13:57-15:02/65	18:03	18:52	20:43	21:31	22:03
18	08:41 16:09-16:37/28	07:55	06:55	06:46	05:52	05:29 05:59-06:13/14
	17:11 13:58-15:02/64	18:05	18:54	20:45	21:33	22:03
19	08:40 16:09-16:37/28	07:53	06:53	06:44	05:51	05:29 05:59-06:13/14
	17:12 13:59-15:02/63	18:07	18:55	20:47	21:34	22:04
20	08:39 16:10-16:37/27	07:51	06:50	06:42	05:49	05:30 05:59-06:13/14
	17:14 14:00-15:02/62	18:09	18:57	20:48	21:35	22:04
21	08:38 16:10-16:37/27	07:49	06:48	06:40	05:48	05:30 05:59-06:14/15
	17:16 14:01-15:01/60	18:11	18:59	20:50	21:37	22:04
22	08:37 16:11-16:37/26	07:47	06:46	06:38	05:47	05:30 06:00-06:14/14
	17:17 14:02-15:01/59	18:12	19:00	20:52	21:38	22:05
23	08:36 16:12-16:37/25	07:45	06:44 18:28-18:37/9	06:36	05:46	05:30 06:00-06:14/14
	17:19 14:03-15:01/58	18:14	19:02	20:53	21:40	22:05
24	08:35 16:13-16:37/24	07:43	06:41 18:23-18:38/15	06:34	05:44	05:30 06:00-06:14/14
	17:21 14:05-15:01/56	18:16	19:04	20:55	21:41	22:05
25	08:34 16:13-16:36/23	07:41 17:48-17:52/4	06:39 18:21-18:40/19	06:32	05:43	05:31 06:01-06:15/14
	17:22 14:05-15:00/55	18:18	19:05	20:57	21:42	22:05
26	08:32 16:15-16:36/21	07:38 17:46-17:54/8	06:37 18:19-18:42/23	06:30	05:42	05:31 06:01-06:15/14
	17:24 14:07-14:59/52	18:19	19:07	20:58	21:43	22:05
27	08:31 16:16-16:34/18	07:36 17:44-17:56/12	06:35 18:17-18:44/27	06:28	05:41	05:32 06:02-06:15/13
	17:26 14:08-14:58/50	18:21	19:09	21:00	21:45	22:05
28	08:30 16:18-16:34/16	07:34 17:41-17:57/16	06:32 18:15-18:45/30	06:26	05:40	05:32 06:02-06:15/13
	17:28 14:10-14:58/48	18:23	19:10	21:01	21:46	22:05
29	08:28 16:20-16:32/12		07:30 19:14-19:47/33	06:24	05:39	05:33 06:03-06:16/13
	17:29 14:11-14:56/45		20:12	21:03	21:47	22:05
30	08:27 16:24-16:29/5		07:28 19:13-19:49/36	06:22	05:38	05:33 06:03-06:15/12
	17:31 14:14-14:55/41		20:14	21:05	21:48	22:04
31	08:26 14:16-14:53/37		07:26 19:13-19:50/37		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2826	118	596	573	2	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11 22:04	06:09 21:34	06:57 19:10-19:45/35 20:33	07:44 18:19-18:42/23 19:25	07:37 17:21	08:26 15:48-16:09/21 13:10-13:19/9 16:42 13:35-14:44/69
2	05:34 06:04-06:15/11 22:04	06:11 21:32	06:59 19:09-19:45/36 20:31	07:46 18:17-18:43/26 19:23	07:38 17:19	08:27 15:49-16:09/20 13:07-13:23/16 16:41 13:36-14:45/69
3	05:35 06:05-06:15/10 22:04	06:12 21:30	07:00 19:08-19:46/38 20:29	07:48 18:16-18:43/27 19:21	07:40 17:17	08:29 15:49-16:08/19 13:04-13:26/22 16:41 13:35-14:45/70
4	05:36 06:06-06:15/9 22:03	06:14 21:29	07:02 19:07-19:45/38 20:27	07:49 18:15-18:43/28 19:19	07:42 17:16	08:30 15:51-16:08/17 13:03-13:28/25 16:40 13:36-14:46/70
5	05:37 06:07-06:15/8 22:03	06:15 21:27	07:03 19:07-19:46/39 20:24	07:51 18:14-18:44/30 19:16	07:44 17:14	08:31 15:51-16:07/16 13:02-13:30/28 16:40 13:36-14:46/70
6	05:37 06:07-06:14/7 22:02	06:17 21:25	07:05 19:05-19:45/40 20:22	07:53 18:13-18:43/30 19:14	07:45 17:12	08:33 15:51-16:06/15 13:01-13:31/30 16:39 13:36-14:46/70
7	05:38 06:08-06:14/6 22:02	06:18 21:24	07:07 19:05-19:46/41 20:20	07:54 18:13-18:43/30 19:12	07:47 14:05-14:08/3 17:11	08:34 15:53-16:06/13 13:01-13:33/32 16:39 13:37-14:47/70
8	05:39 06:09-06:13/4 22:01	06:20 21:22	07:08 19:04-19:45/41 20:18	07:56 18:13-18:43/30 19:10	07:49 13:57-14:16/19 17:09	08:35 15:53-16:05/12 13:00-13:34/34 16:39 13:37-14:48/71
9	05:40 06:10-06:13/3 22:00	06:21 21:20	07:10 19:05-19:45/40 20:15	07:57 18:12-18:40/28 19:08	07:50 13:53-14:20/27 17:07	08:36 15:54-16:05/11 13:00-13:35/35 16:38 13:37-14:48/71
10	05:41 06:11-06:12/1 22:00	06:23 21:18	07:11 19:04-19:44/40 20:13	07:59 18:13-18:38/25 19:05	07:52 13:50-14:23/33 17:06	08:37 15:54-16:04/10 12:59-13:36/37 16:38 13:37-14:48/71
11	05:42 21:59	06:24 21:16	07:13 19:04-19:43/39 20:11	08:01 18:13-18:36/23 19:03	07:54 13:47-14:25/38 17:04	08:38 15:55-16:04/9 12:59-13:37/38 16:38 13:38-14:49/71
12	05:43 21:58	06:26 21:14	07:14 19:04-19:42/38 20:09	08:02 18:13-18:33/20 19:01	07:56 15:54-16:00/6 17:03 13:45-14:26/41	08:39 15:56-16:04/8 12:59-13:37/38 16:38 13:38-14:49/71
13	05:44 21:57	06:27 21:13	07:16 19:05-19:40/35 20:06	08:04 18:14-18:31/17 18:59	07:57 15:51-16:04/13 17:01 13:43-14:28/45	08:40 15:56-16:04/8 16:38 12:59-14:50/111
14	05:45 21:56	06:29 21:11	07:17 19:04-19:37/33 20:04	08:06 18:15-18:29/14 18:57	07:59 15:50-16:06/16 17:00 13:42-14:30/48	08:41 15:57-16:04/7 16:38 12:59-14:50/111
15	05:46 21:56	06:30 21:09	07:19 19:05-19:35/30 20:02	08:07 18:17-18:27/10 18:55	08:01 15:49-16:07/18 16:59 13:41-14:31/50	08:42 15:58-16:04/6 16:38 12:59-14:51/112
16	05:48 21:55	06:32 21:07	07:21 19:06-19:33/27 20:00	08:09 18:18-18:24/6 18:52	08:02 15:48-16:09/21 16:57 13:40-14:32/52	08:43 15:59-16:04/5 16:38 12:59-14:52/113
17	05:49 21:54	06:34 21:05	07:22 19:07-19:31/24 19:57	08:11 18:21-18:22/1 18:50	08:04 15:47-16:10/23 16:56 13:39-14:34/55	08:44 16:00-16:05/5 16:38 13:00-14:52/112
18	05:50 21:53	06:35 21:03	07:24 19:08-19:28/20 19:55	08:12 18:48	08:06 15:47-16:11/24 16:55 13:39-14:35/56	08:45 16:00-16:04/4 16:39 13:00-14:52/112
19	05:51 21:51	06:37 21:01	07:25 19:10-19:26/16 19:53	08:14 18:46	08:08 15:46-16:11/25 16:53 13:37-14:35/58	08:45 16:00-16:05/5 16:39 13:00-14:53/113
20	05:52 21:50	06:38 20:59	07:27 19:13-19:24/11 19:50	08:16 18:44	08:09 15:46-16:12/26 16:52 13:37-14:36/59	08:46 16:01-16:05/4 16:39 13:01-14:54/113
21	05:54 21:49	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:46-16:13/27 16:51 13:37-14:37/60	08:47 16:01-16:05/4 16:40 13:01-14:54/113
22	05:55 21:48	06:41 20:55	07:30 19:46	08:19 18:40	08:12 15:46-16:13/27 16:50 13:36-14:38/62	08:47 16:02-16:06/4 16:40 13:02-14:55/113
23	05:56 21:47	06:43 20:53	07:32 19:44	08:21 18:38	08:14 15:45-16:13/28 16:49 13:35-14:38/63	08:48 16:02-16:06/4 16:41 13:02-14:55/113
24	05:58 21:45	06:45 20:50	07:33 19:41	08:23 18:36	08:16 15:46-16:14/28 16:48 13:35-14:39/64	08:48 16:02-16:07/5 16:41 13:03-14:55/112
25	05:59 21:44	06:46 19:29-19:31/2 20:48	07:35 19:39	07:24 17:34	08:17 15:46-16:14/28 16:47 13:36-14:40/64	08:48 16:04-16:08/4 16:42 13:03-14:56/113
26	06:00 21:43	06:48 19:23-19:37/14 20:46	07:36 19:37	07:26 17:32	08:19 15:46-16:13/27 16:46 13:35-14:40/65	08:49 16:04-16:08/4 16:43 13:04-14:56/112
27	06:02 21:41	06:49 19:19-19:39/20 20:44	07:38 19:34	07:28 17:30	08:20 15:47-16:13/26 16:45 13:35-14:41/66	08:49 16:04-16:09/5 16:43 13:04-14:56/112
28	06:03 21:40	06:51 19:17-19:42/25 20:42	07:40 18:27-18:36/9 19:32	07:30 17:28	08:22 15:47-16:12/25 16:44 13:35-14:42/67	08:49 16:04-16:10/6 16:44 13:05-14:57/112
29	06:05 21:38	06:52 19:15-19:42/27 20:40	07:41 18:23-18:39/16 19:30	07:31 17:26	08:23 15:47-16:11/24 16:43 13:35-14:42/67	08:49 16:04-16:10/6 16:45 13:06-14:57/111
30	06:06 21:06-21:07/1 21:37	06:54 19:13-19:44/31 20:38	07:43 18:20-18:40/20 19:28	07:33 17:25	08:25 15:48-16:10/22 16:43 13:35-14:43/68	08:50 16:04-16:11/7 16:46 13:06-14:58/112
31	06:08 21:05-21:06/1 21:35	06:56 19:11-19:44/33 20:35		07:35 17:23		08:50 16:04-16:12/8 13:07-13:46/39 16:47 13:47-14:58/71
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	72	152	706	368	1664	3589

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 09:18-09:25/7	07:32 08:04-08:08/4	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:49/1	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46 08:11-08:12/1	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:48/2	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:10-08:12/2	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:45-08:46/1	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42 08:09-08:14/5	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:43-08:46/3	07:23	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43 08:11-08:15/4	08:31
	16:52	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16 08:41-08:45/4	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45 08:13-08:15/2	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:17/2	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13 08:41-08:42/1	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:19/2	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:48-08:56/8	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:46-08:58/12	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08 07:31-07:32/1	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:45-08:59/14	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45 09:14-09:20/6	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04 08:36-08:43/7	07:57 08:44-09:01/17	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:13-09:22/9	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06 08:34-08:44/10	07:59 08:44-09:02/18	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43 09:12-09:23/11	08:00 08:24-08:26/2	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07 08:34-08:45/11	08:01 08:44-09:02/18	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55 08:47-08:53/6	16:59	16:38
16	08:43 09:11-09:24/13	07:58 08:22-08:25/3	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:34-08:54/20	08:02 08:44-09:03/19	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57 08:33-08:39/6	16:38
17	08:42 09:10-09:25/15	07:56 08:20-08:25/5	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11 08:36-08:56/20	08:04 08:44-09:04/20	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56 08:34-08:41/7	16:38
18	08:41 09:10-09:26/16	07:54 08:18-08:23/5	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12 08:38-08:57/19	08:06 08:43-09:03/20	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55 08:36-08:42/6	16:39
19	08:40 09:10-09:27/17	07:52 08:16-08:25/9	06:52	06:44	05:51	05:29	05:51	06:37	07:25	08:14 08:40-08:57/17	08:07 08:44-09:04/20	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53 08:37-08:41/4	16:39
20	08:39 09:09-09:27/18	07:50 08:14-08:25/11	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16 08:42-08:57/15	08:09 08:44-09:04/20	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52 08:39-08:42/3	16:39
21	08:38 09:09-09:28/19	07:48 08:12-08:26/14	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17 08:43-08:56/13	08:11 08:45-09:04/19	08:46
	17:16 09:05-09:06/1	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51 08:41-08:42/1	16:40
22	08:37 09:09-09:29/20	07:46 08:10-08:26/16	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19 08:45-08:56/11	08:12 08:45-09:03/18	08:47
	17:17 09:04-09:07/3	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:10-09:30/20	07:44 08:08-08:26/18	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21 08:47-08:55/8	08:14 08:46-09:03/17	08:47
	17:19 09:03-09:07/4	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:09-09:29/20	07:42 08:06-08:25/19	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22 08:49-08:54/5	08:15 08:47-09:04/17	08:48
	17:21 09:02-09:08/6	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:10-09:30/20	07:40 08:04-08:24/20	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24 07:51-07:56/5	08:17 08:48-09:04/16	08:48
	17:22 09:00-09:07/7	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:11-09:30/19	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26 07:53-07:56/3	08:18 08:49-09:02/13	08:49
	17:24 09:00-09:06/6	18:19 08:14-08:22/8	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:11-09:29/18	07:36 08:02-08:13/11	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28 07:54-07:55/1	08:20 08:51-09:02/11	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:12-09:30/18	07:34 08:02-08:11/9	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:21 08:53-09:02/9	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 09:12-09:29/17		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 08:54-09:00/6	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 09:14-09:28/14		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 09:15-09:27/12		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	329	185	5	0	0	0	0	0	0	172	356	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45 08:16-08:23/7	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:25/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:26/9	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:26/7	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:27/6	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:23-08:27/4	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:26/2	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:27/1	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:38-08:45/7	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:37-08:47/10	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02 08:37-08:48/11	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04 08:36-08:49/13	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41 09:09-09:13/4	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06 08:35-08:49/14	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 09:08-09:14/6	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:50/13	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:06-09:14/8	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09 08:39-08:50/11	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:14/9	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:50/9	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37 09:04-09:15/11	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:51/8	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:03-09:16/13	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:50/6	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:01-09:15/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15 08:46-08:50/4	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:02-09:15/13	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:04-09:15/11	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:04-09:14/10	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:06-09:13/7	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:55/4		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	115	37	0	0	0	0	0	0	0	0	154	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:57/7	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36 08:04-08:10/6	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:57/9	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46	07:38 08:06-08:11/5	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:56/10	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:07-08:10/3	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:56/10	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42 08:09-08:10/1	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:55/8	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43 08:18-08:23/5	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16 08:49-08:53/4	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45 08:17-08:25/8	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:16-08:26/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13 08:38-08:41/3	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:27/10	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11 08:36-08:41/5	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:28/9	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09 08:34-08:40/6	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:28/7	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07 08:32-08:39/7	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:22-08:27/5	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:27/3	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:48
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:56/3		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33 08:04-08:06/2	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:56/5		07:25		05:37		06:08	06:55		07:35 08:02-08:09/7		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:26/6	08:24 08:50-08:54/4	07:32 07:55-08:17/22	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:27/7	08:22 08:48-08:52/4	07:30 07:53-08:18/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:27/7	08:21	07:28 07:51-07:52/1	07:19	06:16	05:35
	16:50	17:38	18:28 07:53-08:19/26	20:20	21:09	21:53
4	08:49 09:19-09:26/7	08:19	07:26 07:49-08:19/30	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:20-09:26/6	08:18	07:24 07:46-08:18/32	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:20-09:25/5	08:16	07:21 07:44-08:18/34	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:23-09:24/1	08:14	07:19 07:42-08:18/36	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:40-08:18/38	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15 07:38-08:17/39	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:37-08:15/38	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08	07:10 07:38-08:14/36	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08 07:39-07:52/13	06:59	06:01	05:30
	17:02	17:54	18:44 07:54-08:13/19	20:35	21:24	22:00
13	08:45	08:04	07:06 07:40-07:50/10	06:57	05:59	05:30
	17:03	17:56	18:45 07:56-08:10/14	20:37	21:25	22:01
14	08:44	08:02	07:04 07:58-08:06/8	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02 17:32-17:34/2	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:23/3	06:57	06:48	05:53	05:29
	17:09	18:03 17:32-17:36/4	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:22/4	06:55	06:46	05:52	05:29
	17:11	18:05 17:33-17:38/5	18:54	20:45	21:32	22:03
19	08:40	07:53 08:16-08:21/5	06:53	06:44	05:51	05:30
	17:12	18:07 17:34-17:40/6	18:55	20:47	21:34	22:04
20	08:39	07:51 08:16-08:19/3	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:15/15	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:16/19	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	44	92	421	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40 18:07-18:10/3	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38 18:04-18:10/6	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36 18:03-18:08/5	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34 17:02-17:05/3	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32 17:01-17:03/2	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	496	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 08:50-08:57/7	07:32	07:23	06:20	05:36
	16:48	17:35 09:06-09:28/22	18:25	20:17	21:06	21:50
2	08:49	08:22 08:48-08:56/8	07:30	07:21	06:18	05:36
	16:49	17:36 09:07-09:27/20	18:26	20:19	21:08	21:51
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35
	16:50	17:38 09:08-09:26/18	18:28	20:20	21:09	21:52
4	08:49	08:19 08:45-08:55/10	07:26	07:16	06:15	05:34
	16:51	17:40 09:10-09:25/15	18:30	20:22	21:11	21:53
5	08:49	08:18 08:43-08:55/12	07:24	07:14	06:13	05:34
	16:53	17:42 09:13-09:22/9	18:32	20:24	21:13	21:54
6	08:49	08:16 08:41-08:56/15	07:21 07:44-07:45/1	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48	08:14 08:39-08:56/17	07:19 07:42-07:44/2	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13 08:38-08:56/18	07:17 07:40-07:42/2	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:17-09:18/1	08:11 08:36-08:56/20	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47 09:16-09:18/2	08:09 08:34-08:55/21	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:18/3	08:07 08:37-08:55/18	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:14-09:19/5	08:06 08:38-08:54/16	07:08	06:59	06:01	05:30
	17:02 16:27-16:28/1	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:19/5	08:04 08:39-08:52/13	07:06	06:57	05:59	05:30
	17:03 16:26-16:30/4	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:21/8	08:02 08:42-08:50/8	07:04	06:55	05:58	05:30
	17:05 16:28-16:32/4	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:22/10	08:00	07:01	06:52	05:56	05:30
	17:06 16:28-16:34/6	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:23/12	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08 16:28-16:36/8	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:24/14	07:56 08:20-08:22/2	06:57	06:48	05:53	05:30
	17:09 16:28-16:37/9	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54 08:18-08:19/1	06:55	06:46	05:52	05:30
	17:11 16:29-16:39/10	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:26/18	07:53	06:53	06:44	05:51	05:30
	17:12 16:30-16:41/11	18:07	18:55	20:47	21:34	22:04
20	08:39 09:06-09:26/20	07:51	06:50	06:42	05:49	05:30
	17:14 16:29-16:42/13	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:27/22	07:49	06:48	06:40	05:48	05:30
	17:16 16:31-16:44/13	18:11	18:59	20:50	21:37	22:04
22	08:37 09:04-09:28/24	07:47	06:46	06:38	05:47	05:30
	17:17 16:32-16:44/12	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:28/25	07:45	06:43	06:36	05:46	05:30
	17:19 16:33-16:44/11	18:14	19:02	20:53	21:39	22:05
24	08:35 09:02-09:28/26	07:42	06:41	06:34	05:44	05:30
	17:21 16:35-16:42/7	18:16	19:04	20:55	21:41	22:05
25	08:33 09:02-09:29/27	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:03-09:29/26	07:38	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 09:03-09:29/26	07:36	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 08:56-08:57/1	07:34	06:32	06:26	05:40	05:32
	17:28 09:03-09:30/27	18:23	19:10	21:01	21:46	22:05
29	08:28 08:54-08:57/3		07:30	06:24	05:39	05:33
	17:29 09:03-09:29/26		20:12	21:03	21:47	22:04
30	08:27 08:53-08:58/5		07:28	06:22	05:38	05:33
	17:31 09:05-09:29/24		20:14	21:05	21:48	22:04
31	08:25 08:51-08:57/6		07:25		05:37	
	17:33 09:05-09:28/23		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	514	280	5	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:19/2	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54	08:19-08:21/2	07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55	16:09-16:16/7	16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53	16:07-16:18/11	16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52	16:07-16:19/12	16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51	16:07-16:20/13	16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50	16:06-16:18/12	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49	16:06-16:17/11	16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48	16:06-16:16/10	16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47	16:06-16:15/9	16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46	16:06-16:14/8	16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45	16:07-16:13/6	16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44	16:07-16:12/5	16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44	16:08-16:11/3	16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43	16:09-16:11/2	16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	63		728		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January		February		March	April	May	June
1	08:49	09:31-09:50/19	08:24		07:32	07:23	06:20	05:36
	16:48		17:35		18:25	20:17	21:06	21:50
2	08:49	09:32-09:51/19	08:22		07:30	07:21	06:18	05:36
	16:49		17:36		18:26	20:19	21:08	21:51
3	08:49	09:31-09:50/19	08:21		07:28	07:19	06:16	05:35
	16:50		17:38		18:28	20:20	21:09	21:52
4	08:49	09:33-09:51/18	08:19		07:26	07:16	06:15	05:34
	16:51		17:40		18:30	20:22	21:11	21:53
5	08:49	09:34-09:51/17	08:18		07:24	07:14	06:13	05:34
	16:53		17:42		18:32	20:24	21:13	21:54
6	08:49	09:34-09:50/16	08:16		07:21	07:12	06:11	05:33
	16:54		17:44		18:33	20:25	21:14	21:55
7	08:48	09:35-09:51/16	08:14	08:39-08:40/1	07:19	07:10	06:09	05:32
	16:55		17:45		18:35	20:27	21:16	21:56
8	08:48	09:36-09:50/14	08:13	08:38-08:39/1	07:17	07:08	06:08	05:32
	16:56		17:47		18:37	20:28	21:17	21:57
9	08:47	09:38-09:50/12	08:11		07:15	07:05	06:06	05:31
	16:58		17:49		18:38	20:30	21:19	21:58
10	08:47	09:39-09:49/10	08:09		07:13	07:03	06:04	05:31
	16:59		17:51		18:40	20:32	21:20	21:59
11	08:46	09:15-09:16/1	08:07		07:10	07:01	06:03	05:31
	17:00	09:41-09:48/7	17:53		18:42	20:33	21:22	21:59
12	08:46	09:14-09:17/3	08:06		07:08	06:59	06:01	05:30
	17:02		17:54		18:44	20:35	21:23	22:00
13	08:45	09:14-09:18/4	08:04		07:06	06:57	05:59	05:30
	17:03		17:56		18:45	20:37	21:25	22:01
14	08:44	09:13-09:19/6	08:02		07:04	06:55	05:58	05:30
	17:05		17:58		18:47	20:38	21:27	22:01
15	08:44	09:12-09:20/8	08:00		07:01	06:52	05:56	05:30
	17:06		18:00		18:49	20:40	21:28	22:02
16	08:43	09:11-09:20/9	07:58		06:59	06:50	05:55	05:30
	17:08		18:02		18:50	20:42	21:29	22:02
17	08:42	09:10-09:21/11	07:56		06:57	06:48	05:54	05:30
	17:09		18:03		18:52	20:43	21:31	22:03
18	08:41	09:09-09:21/12	07:54		06:55	06:46	05:52	05:30
	17:11		18:05		18:54	20:45	21:32	22:03
19	08:40	09:08-09:22/14	07:52		06:53	06:44	05:51	05:30
	17:12		18:07		18:55	20:47	21:34	22:04
20	08:39	09:07-09:22/15	07:51		06:50	06:42	05:49	05:30
	17:14		18:09		18:57	20:48	21:35	22:04
21	08:38	09:05-09:21/16	07:49		06:48	06:40	05:48	05:30
	17:16		18:11		18:59	20:50	21:37	22:04
22	08:37	09:05-09:21/16	07:47		06:46	06:38	05:47	05:30
	17:17		18:12		19:00	20:51	21:38	22:04
23	08:36	09:06-09:22/16	07:45		06:43	06:36	05:46	05:30
	17:19		18:14		19:02	20:53	21:39	22:05
24	08:35	09:06-09:20/14	07:42	08:06-08:07/1	06:41	06:34	05:44	05:30
	17:21		18:16		19:04	20:55	21:41	22:05
25	08:33	09:08-09:20/12	07:40	08:04-08:06/2	06:39	06:32	05:43	05:31
	17:22		18:18		19:05	20:56	21:42	22:05
26	08:32	08:59-09:01/2	07:38		06:37	06:30	05:42	05:31
	17:24	09:09-09:19/10	18:19		19:07	20:58	21:43	22:05
27	08:31	08:57-09:00/3	07:36		06:34	06:28	05:41	05:32
	17:26	09:11-09:17/6	18:21		19:09	21:00	21:44	22:05
28	08:30	08:56-09:00/4	07:34		06:32	06:26	05:40	05:32
	17:28		18:23		19:10	21:01	21:46	22:05
29	08:28	08:54-08:58/4			07:30	06:24	05:39	05:33
	17:29				20:12	21:03	21:47	22:04
30	08:27				07:28	06:22	05:38	05:33
	17:31				20:14	21:04	21:48	22:04
31	08:25				07:25		05:37	
	17:33				20:15		21:49	
Potential sun hours	262		279		367	414	482	494
Sum of minutes with flicker	353		5		0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 17:21	08:26 08:57-08:58/1 16:42 09:23-09:30/7
2	05:34 22:04	06:11 21:32	06:59 20:31	07:46 19:23	07:38 17:19	08:27 09:22-09:32/10 16:41
3	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:08-08:09/1 17:17	08:29 09:21-09:33/12 16:41
4	05:36 22:03	06:14 21:29	07:02 20:27	07:49 19:19	07:42 08:09-08:10/1 17:16	08:30 09:21-09:35/14 16:40
5	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 17:14	08:31 09:21-09:36/15 16:40
6	05:38 22:02	06:17 21:25	07:05 20:22	07:52 19:14	07:45 17:12	08:32 09:20-09:36/16 16:39
7	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 17:11	08:34 09:20-09:37/17 16:39
8	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 09:21-09:39/18 16:39
9	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:08	07:50 17:07	08:36 09:21-09:39/18 16:39
10	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 09:21-09:40/19 16:38
11	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 09:21-09:40/19 16:38
12	05:43 21:58	06:26 21:14	07:14 20:09	08:02 19:01	07:55 17:03	08:39 09:21-09:41/20 16:38
13	05:44 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 08:26-08:30/4 17:01	08:40 09:21-09:41/20 16:38
14	05:45 21:56	06:29 21:10	07:17 20:04	08:06 18:57	07:59 08:28-08:32/4 17:00	08:41 09:22-09:42/20 16:38
15	05:46 21:55	06:30 21:09	07:19 20:02	08:07 18:55	08:01 08:30-08:33/3 16:59 08:44-08:50/6	08:42 09:22-09:43/21 16:38
16	05:48 21:54	06:32 21:07	07:21 19:59	08:09 08:35-08:36/1 18:52	08:02 08:32-08:34/2 16:57 08:42-08:52/10	08:43 09:23-09:44/21 16:38 09:17-09:19/2
17	05:49 21:53	06:34 21:05	07:22 19:57	08:11 08:36-08:37/1 18:50	08:04 08:42-08:54/12 16:56	08:44 09:23-09:44/21 16:39 09:17-09:20/3
18	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 08:40-08:54/14 16:55	08:44 09:23-09:44/21 09:16-09:21/5 16:39 15:52-15:54/2
19	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 08:40-08:56/16 16:53	08:45 09:24-09:45/21 09:17-09:22/5 16:39 15:53-15:55/2
20	05:53 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 08:40-08:56/16 16:52	08:46 09:25-09:46/21 09:18-09:23/5 16:39 15:52-15:56/4
21	05:54 21:49	06:40 20:57	07:28 19:48	08:17 18:42	08:11 08:41-08:57/16 16:51	08:46 09:24-09:46/22 09:18-09:23/5 16:40 15:53-15:57/4
22	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 08:43-08:58/15 16:50	08:47 09:25-09:47/22 09:19-09:24/5 16:40 15:53-15:57/4
23	05:56 21:46	06:43 20:52	07:32 19:43	08:21 18:38	08:14 08:44-08:58/14 16:49	08:47 09:26-09:47/21 09:19-09:24/5 16:41 15:54-15:58/4
24	05:58 21:45	06:44 20:50	07:33 19:41	08:23 18:36	08:15 08:46-08:58/12 16:48	08:48 09:26-09:47/21 09:19-09:24/5 16:41 15:54-15:57/3
25	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 08:48-08:59/11 16:47	08:48 09:27-09:48/21 09:20-09:25/5 16:42 15:55-15:57/2
26	06:00 21:42	06:48 20:46	07:36 19:37	07:26 17:32	08:18 08:49-08:58/9 16:46	08:49 09:27-09:48/21 16:43 09:20-09:25/5
27	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 08:51-08:59/8 16:45	08:49 09:27-09:48/21 16:43 09:21-09:24/3
28	06:03 21:40	06:51 20:42	07:40 19:32	07:29 17:28	08:22 08:53-08:59/6 16:44	08:49 09:28-09:49/21 16:44 09:23-09:24/1
29	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 08:54-08:59/5 16:44	08:49 09:28-09:49/21 16:45
30	06:06 21:37	06:54 20:37	07:43 19:28	07:33 17:25	08:24 08:56-08:59/3 16:43	08:49 09:29-09:49/20 16:46
31	06:08 21:35	06:55 20:35		07:35 17:23		08:49 09:30-09:50/20 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	0	2	188	662

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:48/28	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 09:00-09:33/33
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:00-09:34/34
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:00-09:35/35
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:14/5	08:30 09:02-09:36/34
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43 08:11-08:16/5	08:31 09:03-09:36/33
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45 08:13-08:17/4	08:33 09:04-09:36/32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:18/3	08:34 09:06-09:37/31
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:18/1	08:35 09:07-09:38/31
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:38/30
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:38/29
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:39/29
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56 16:26-16:30/4	08:39 09:11-09:39/28
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04 08:32-08:34/2	07:57 16:24-16:31/7	08:40 09:12-09:39/27
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06 08:31-08:37/6	07:59 16:23-16:29/6	08:41 09:13-09:40/27
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30	05:47	06:30	07:19	08:07 08:33-08:38/5	08:01 16:23-16:28/5	08:42 09:14-09:40/26
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:39/4	08:02 08:38-08:42/4	08:43 09:15-09:41/26
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57 16:23-16:27/4	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04 08:36-08:44/8	08:44 09:16-09:42/26
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56 16:22-16:24/2	16:39
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:36-08:46/10	08:44 09:16-09:41/25
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55 16:22-16:23/1	16:39
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:46/9	08:45 09:17-09:42/25
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:39-08:47/8	08:46 09:18-09:43/25
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:48/7	08:46 09:18-09:43/25
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:49/6	08:47 09:19-09:44/25
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:55	19:46	18:40	16:50 09:16-09:22/6	16:40
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:49/5	08:47 09:19-09:44/25
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49 09:13-09:24/11	16:41
24	08:35 09:02-09:12/10	07:43 08:06-08:07/1	06:41	06:34	05:44	05:31	05:58	06:45	07:33	08:23	08:15 08:46-08:49/3	08:48 09:19-09:44/25
	17:21 16:48-16:49/1	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48 09:12-09:26/14	16:41
25	08:33 09:02-09:10/8	07:40 08:04-08:07/3	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48 09:20-09:45/25
	17:22 16:49-16:52/3	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47 09:12-09:28/16	16:42
26	08:32 09:06-09:08/2	07:38 08:02-08:07/5	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19 09:11-09:29/18	08:49 09:20-09:46/26
	17:24 16:50-16:54/4	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 16:50-16:55/5	07:36 08:00-08:06/6	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 09:11-09:30/19	08:49 09:20-09:46/26
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30 16:51-16:58/7	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 09:04-09:06/2	08:49 09:20-09:46/26
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44 09:11-09:32/21	16:44
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 09:01-09:08/7	08:49 09:20-09:47/27
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44 09:10-09:32/22	16:45
30	08:27 16:55-16:59/4		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:01-09:33/32	08:49 09:20-09:47/27
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:56		07:35		08:49 09:20-09:48/28
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	611	39	0	0	0	0	0	0	0	19	277	871

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: RIN_WT01 - Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18	05:35	05:34	06:10	06:59	07:46	07:38	08:28
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:50	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:44	08:32
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:57	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:18	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:51	08:36
	16:57	17:49	18:39	20:30	21:19	21:58	22:01	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:47	08:08	07:10	07:01	06:03	05:30	05:42	06:24	07:13	08:01	07:54	08:39
	17:00	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:40
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:41
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:45	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:57	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:21	08:09	08:03	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	20:00	18:52	16:57	16:38
17	08:42	07:57	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:04	21:53	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:08	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:36	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:05	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:49
	17:22	18:18	19:05	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:44	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:05	06:52	07:41	07:31	08:23	08:50
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:05	21:37	20:38	19:28	17:25	16:43	16:46
31	08:26		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:50		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:41/2	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:39/2	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:34/2	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08 07:33-07:35/2	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	10	0	0	0	5	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12 06:40-06:41/1	07:00 07:26-07:32/6	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:32/5	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03 07:29-07:33/4	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:36/2	06:11	05:33	05:37	06:16	07:05 07:30-07:32/2	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:36/4	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:35/5	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:34/6	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04 06:29-06:30/1	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55 07:17-07:18/1	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52 07:15-07:18/3	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50 07:13-07:17/4	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48 07:11-07:14/3	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45	05:30	05:56	06:43	07:31 07:56-08:00/4	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33 07:58-08:01/3	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:15/3	07:35 07:59-08:01/2	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	11	25	1	0	0	9	26	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June
1	08:49	08:24	07:32		07:23	07:45-07:46/1	06:20		05:36
	16:48	17:34	18:25		20:17		21:06		21:50
2	08:49	08:22	07:30		07:21		06:18		05:35
	16:49	17:36	18:26		20:18		21:08		21:51
3	08:49	08:21	07:28		07:19		06:16		05:35
	16:50	17:38	18:28		20:20		21:09		21:53
4	08:49	08:19	07:26		07:16	07:39-07:40/1	06:14		05:34
	16:51	17:40	18:30		20:22		21:11		21:54
5	08:49	08:18	07:23		07:14	07:37-07:38/1	06:13		05:33
	16:52	17:42	18:31		20:23		21:13		21:54
6	08:49	08:16	07:21		07:12		06:11		05:33
	16:53	17:43	18:33		20:25		21:14		21:55
7	08:48	08:14	07:19		07:10		06:09		05:32
	16:55	17:45	18:35		20:27		21:16		21:56
8	08:48	08:13	07:17		07:07		06:07		05:32
	16:56	17:47	18:37		20:28		21:17		21:57
9	08:47	08:11	07:15		07:05		06:06		05:31
	16:57	17:49	18:38		20:30		21:19		21:58
10	08:47	08:09	07:12		07:03		06:04		05:31
	16:59	17:51	18:40		20:32		21:20		21:59
11	08:46	08:07	07:10		07:01		06:02		05:30
	17:00	17:52	18:42		20:33		21:22		21:59
12	08:46	08:06	07:08		06:59		06:01		05:30
	17:01	17:54	18:43		20:35		21:23		22:00
13	08:45	08:04	07:06		06:57	07:19-07:21/2	05:59		05:30
	17:03	17:56	18:45		20:37		21:25		22:01
14	08:44	08:02	07:04		06:54	07:17-07:22/5	05:58		05:30
	17:04	17:58	18:47		20:38		21:27		22:01
15	08:44	08:00	07:01		06:52	07:15-07:22/7	05:56		05:29
	17:06	18:00	18:49		20:40		21:28		22:02
16	08:43	07:58	06:59		06:50	07:13-07:21/8	05:55		05:29
	17:07	18:01	18:50		20:42		21:29		22:02
17	08:42	07:56	06:57		06:48	07:12-07:20/8	05:53		05:29
	17:09	18:03	18:52		20:43		21:31		22:03
18	08:41	07:54	06:55		06:46	07:13-07:18/5	05:52		05:29
	17:11	18:05	18:54		20:45		21:32		22:03
19	08:40	07:52	06:52		06:44		05:50		05:29
	17:12	18:07	18:55		20:46		21:34		22:04
20	08:39	07:50	06:50		06:42		05:49		05:29
	17:14	18:09	18:57		20:48		21:35		22:04
21	08:38	07:48	06:48		06:40		05:48	06:14-06:15/1	05:29
	17:15	18:10	18:59		20:50		21:37		22:04
22	08:37	07:46	06:46	07:08-07:10/2	06:38		05:47	06:13-06:15/2	05:30
	17:17	18:12	19:00		20:51		21:38		22:04
23	08:36	07:44	06:43	07:06-07:10/4	06:36	06:59-07:01/2	05:45	06:12-06:14/2	05:30
	17:19	18:14	19:02		20:53		21:39		22:05
24	08:35	07:42	06:41	07:03-07:09/6	06:34	06:57-07:00/3	05:44	06:11-06:13/2	05:30
	17:20	18:16	19:04		20:55		21:41		22:05
25	08:33	07:40	06:39	07:01-07:08/7	06:32	06:55-07:00/5	05:43		05:30
	17:22	18:17	19:05		20:56		21:42		22:05
26	08:32	07:38	06:37	07:01-07:06/5	06:30	06:53-06:59/6	05:42		05:31
	17:24	18:19	19:07		20:58		21:43		22:05
27	08:31	07:36	06:34		06:28	06:53-06:57/4	05:41		05:31
	17:26	18:21	19:09		21:00		21:45		22:05
28	08:30	07:34	06:32		06:26		05:40		05:32
	17:27	18:23	19:10		21:01		21:46		22:05
29	08:28		07:30		06:24		05:39		05:32
	17:29		20:12		21:03		21:47		22:05
30	08:27		07:28		06:22		05:38		05:33
	17:31		20:14		21:04		21:48		22:04
31	08:25		07:25				05:37		
	17:33		20:15				21:49		
Potential sun hours	262	279	367		415		482		495
Sum of minutes with flicker	0	0	24		58		7		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10		06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12		07:00		07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02		07:49	07:42	08:30
	22:03		21:29		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03		07:51	07:43	08:31
	22:03		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05		07:52	07:45	08:33
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06	07:32-07:33/1	07:54	07:47	08:34
	22:02		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08	07:33-07:34/1	07:56	07:49	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11		07:59	07:52	08:37
	22:00		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:39/1	08:01	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14		08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16		08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45		06:29		07:17		08:06	07:59	08:41
	21:56		21:10		20:04		18:57	17:00	16:38
15	05:46		06:30		07:19		08:07	08:01	08:42
	21:55		21:09		20:02		18:54	16:58	16:38
16	05:47		06:32	07:00-07:05/5	07:20		08:09	08:02	08:43
	21:54		21:07		19:59		18:52	16:57	16:38
17	05:48		06:33	07:00-07:05/5	07:22	07:50-07:54/4	08:11	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50		06:35	07:02-07:07/5	07:24	07:48-07:55/7	08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36	07:03-07:06/3	07:25	07:50-07:56/6	08:14	08:07	08:45
	21:51		21:01		19:52		18:46	16:53	16:39
20	05:52	06:21-06:23/2	06:38	07:05-07:06/1	07:27	07:52-07:57/5	08:16	08:09	08:46
	21:50		20:59		19:50		18:44	16:52	16:39
21	05:53	06:23-06:25/2	06:40		07:28	07:53-07:56/3	08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55	06:24-06:26/2	06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56	06:25-06:26/1	06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46	07:16-07:21/5	07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47	07:14-07:23/9	07:36		07:26	08:19	08:49
	21:42		20:46		19:37		17:32	16:46	16:42
27	06:02		06:49	07:15-07:23/8	07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51	07:17-07:23/6	07:39		07:29	08:22	08:49
	21:40		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52	07:18-07:23/5	07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54	07:20-07:22/2	07:43		07:33	08:24	08:49
	21:37		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:23		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	9		54		28		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 08:50-08:53/3	07:32	07:23	06:20 06:44-06:47/3	05:36
	16:48	17:35	18:25	20:17	21:06 06:53-07:23/30	21:50
2	08:49	08:22 08:48-08:52/4	07:30	07:21	06:18 06:42-06:46/4	05:35
	16:49	17:36	18:26	20:19	21:08 06:53-07:22/29	21:51
3	08:49	08:21 08:46-08:51/5	07:28	07:19	06:16 06:41-06:46/5	05:35
	16:50	17:38	18:28	20:20	21:09 06:53-07:22/29	21:52
4	08:49	08:19 08:45-08:50/5	07:26	07:16	06:14 06:39-06:44/5	05:34
	16:51	17:40	18:30	20:22	21:11 06:53-07:22/29	21:53
5	08:49	08:18 08:43-08:49/6	07:23	07:14	06:13 06:53-07:21/28	05:33
	16:52	17:42	18:32	20:23	21:13	21:54
6	08:49	08:16 08:41-08:47/6	07:21	07:12	06:11 06:53-07:20/27	05:33
	16:54	17:43	18:33	20:25	21:14	21:55
7	08:48 09:18-09:19/1	08:14 08:39-08:47/8	07:19	07:10	06:09 06:54-07:20/26	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13 08:38-08:48/10	07:17	07:08	06:07 06:32-06:33/1	05:32
	16:56	17:47	18:37	20:28	21:17 06:55-07:19/24	21:57
9	08:47 09:17-09:21/4	08:11 08:36-08:48/12	07:15	07:05 07:28-07:29/1	06:06 06:31-06:34/3	05:31
	16:57	17:49	18:38	20:30	21:19 06:56-07:18/22	21:58
10	08:47 09:16-09:21/5	08:09 08:34-08:48/14	07:13	07:03	06:04 06:29-06:34/5	05:31
	16:59	17:51	18:40	20:32	21:20 06:57-07:17/20	21:59
11	08:46 09:15-09:22/7	08:07 08:32-08:47/15	07:10	07:01	06:02 06:28-06:36/8	05:30
	17:00	17:53	18:42	20:33	21:22 06:58-07:16/18	21:59
12	08:46 09:15-09:23/8	08:06 08:33-08:46/13	07:08	06:59	06:01 06:26-06:36/10	05:30
	17:02	17:54	18:44	20:35	21:23 06:59-07:14/15	22:00
13	08:45 09:14-09:24/10	08:04 08:34-08:45/11	07:06 07:28-07:29/1	06:57	05:59 06:25-06:37/12	05:30
	17:03	17:56	18:45	20:37	21:25 07:02-07:12/10	22:01
14	08:44 09:13-09:24/11	08:02 08:35-08:43/8	07:04 07:26-07:30/4	06:54	05:58 06:23-06:36/13	05:30
	17:04	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:01 07:24-07:31/7	06:52	05:56 06:22-06:37/15	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:25/14	07:58	06:59 07:22-07:32/10	06:50	05:55 06:21-06:37/16	05:29
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56	06:57 07:19-07:31/12	06:48	05:53 06:19-06:36/17	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54	06:55 07:17-07:31/14	06:46	05:52 06:19-06:36/17	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:25/15	07:52	06:52 07:15-07:31/16	06:44	05:51 06:19-06:36/17	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:11-09:25/14	07:50	06:50 07:16-07:30/14	06:42 07:08-07:13/5	05:49 06:20-06:36/16	05:29
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:11-09:24/13	07:49	06:48 07:16-07:27/11	06:40 07:04-07:17/13	05:48 06:19-06:35/16	05:30
	17:16	18:10	18:59	20:50	21:37	22:04
22	08:37 09:12-09:24/12	07:46	06:46 07:18-07:25/7	06:38 07:01-07:19/18	05:47 06:20-06:35/15	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:14-09:23/9	07:44	06:43 07:06-07:08/2	06:36 06:59-07:20/21	05:45 06:21-06:34/13	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:15-09:21/6	07:42	06:41 07:04-07:07/3	06:34 06:58-07:21/23	05:44 06:22-06:33/11	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40	06:39 07:01-07:05/4	06:32 06:56-07:22/26	05:43 06:23-06:32/9	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38	06:37	06:30 06:55-07:22/27	05:42 06:25-06:30/5	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36	06:34	06:28 06:54-07:22/28	05:41	05:31
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32	06:26 06:54-07:22/28	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24 06:54-07:23/29	05:39	05:32
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28 07:50-07:51/1	06:22 06:46-06:47/1	05:38	05:33
	17:31		20:14	21:04 06:54-07:23/29	21:48	22:04
31	08:25 08:51-08:52/1		07:25 07:48-07:49/1		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	176	120	107	249	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34		06:09	06:37-06:46/9	06:57		07:44		07:36	08:04-08:17/13	08:26	08:57-09:04/7
	22:04		21:33	07:09-07:25/16	20:33		19:25		17:21		16:42	
2	05:34		06:10	06:39-06:46/7	06:59		07:46		07:38	08:06-08:17/11	08:27	08:59-09:05/6
	22:04		21:32	07:07-07:26/19	20:31		19:23		17:19		16:41	
3	05:35		06:12	06:40-06:44/4	07:00	07:26-07:27/1	07:48		07:40	08:07-08:16/9	08:29	09:00-09:04/4
	22:03		21:30	07:07-07:28/21	20:29		19:21		17:17		16:41	
4	05:36		06:13	06:41-06:43/2	07:02		07:49		07:42	08:09-08:16/7	08:30	09:02-09:05/3
	22:03		21:29	07:05-07:28/23	20:26		19:19		17:16		16:40	
5	05:37		06:15	07:05-07:30/25	07:03		07:51		07:43	08:11-08:17/6	08:31	09:03-09:04/1
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:37		06:16	07:04-07:30/26	07:05		07:52		07:45	08:13-08:19/6	08:33	
	22:02		21:25		20:22		19:14		17:12		16:39	
7	05:38		06:18	07:04-07:31/27	07:06		07:54		07:47	08:15-08:20/5	08:34	
	22:01		21:23		20:20		19:12		17:10		16:39	
8	05:39		06:19	07:03-07:31/28	07:08		07:56		07:49	08:17-08:22/5	08:35	
	22:01		21:22		20:18		19:10		17:09		16:39	
9	05:40		06:21	06:49-06:54/5	07:10		07:57		07:50	08:19-08:23/4	08:36	
	22:00		21:20	07:02-07:31/29	20:15		19:07		17:07		16:38	
10	05:41		06:23	06:50-06:55/5	07:11		07:59		07:52	08:21-08:24/3	08:37	
	22:00		21:18	07:02-07:31/29	20:13		19:05		17:06		16:38	
11	05:42		06:24	06:51-06:55/4	07:13		08:01		07:54	08:23-08:24/1	08:38	
	21:59		21:16	07:01-07:31/30	20:11		19:03		17:04		16:38	
12	05:43		06:26	06:53-06:55/2	07:14		08:02		07:55		08:39	
	21:58		21:14	07:02-07:31/29	20:08		19:01		17:03		16:38	
13	05:44		06:27	06:54-06:55/1	07:16	07:41-07:42/1	08:04		07:57		08:40	
	21:57		21:12	07:01-07:31/30	20:06		18:59		17:01		16:38	
14	05:45		06:29	07:02-07:31/29	07:17		08:06		07:59		08:41	
	21:56		21:10		20:04		18:57		17:00		16:38	
15	05:46		06:30	07:01-07:30/29	07:19		08:07		08:01		08:42	
	21:55		21:09		20:02		18:54		16:58		16:38	
16	05:47		06:32	07:02-07:30/28	07:20		08:09		08:02		08:43	
	21:54		21:07		19:59		18:52		16:57		16:38	
17	05:49		06:33	07:02-07:29/27	07:22		08:11		08:04		08:44	
	21:53		21:05		19:57		18:50		16:56		16:38	
18	05:50	06:34-06:41/7	06:35	07:03-07:28/25	07:24	07:49-07:53/4	08:12		08:06	08:49-08:55/6	08:44	
	21:52		21:03		19:55		18:48		16:54		16:39	
19	05:51	06:32-06:42/10	06:37	07:04-07:26/22	07:25	07:50-07:54/4	08:14		08:07	08:48-08:57/9	08:45	
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52	06:32-06:44/12	06:38	07:05-07:26/21	07:27	07:52-07:55/3	08:16		08:09	08:47-08:59/12	08:46	
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54	06:31-06:45/14	06:40	07:06-07:23/17	07:28	08:05-08:10/5	08:17		08:11	08:47-09:00/13	08:46	
	21:49		20:57		19:48	07:53-07:54/1	18:42		16:51		16:40	
22	05:55	06:30-06:45/15	06:41	07:09-07:21/12	07:30	08:02-08:12/10	08:19		08:12	08:47-09:01/14	08:47	
	21:48		20:54		19:46		18:40		16:50		16:40	
23	05:56	06:30-06:46/16	06:43		07:32	08:00-08:13/13	08:21		08:14	08:46-09:01/15	08:47	
	21:46		20:52		19:43		18:38		16:49		16:41	
24	05:58	06:29-06:46/17	06:44		07:33	07:59-08:14/15	08:23		08:15	08:46-09:02/16	08:48	
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59	06:29-06:47/18	06:46		07:35	07:59-08:14/15	07:24		08:17	08:48-09:03/15	08:48	
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00	06:29-06:47/18	06:48		07:36	08:01-08:14/13	07:26		08:19	08:49-09:03/14	08:49	
	21:42		20:46		19:37		17:32		16:46		16:43	
27	06:02	06:30-06:47/17	06:49		07:38	08:03-08:14/11	07:28	08:07-08:10/3	08:20	08:51-09:04/13	08:49	
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:32-06:48/16	06:51		07:39	08:04-08:12/8	07:29	08:04-08:13/9	08:22	08:53-09:04/11	08:49	
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:33-06:47/14	06:52		07:41	08:06-08:12/6	07:31	08:03-08:15/12	08:23	08:54-09:04/10	08:49	
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:34-06:47/13	06:54		07:43	08:07-08:09/2	07:33	08:02-08:16/14	08:24	08:56-09:04/8	08:49	
	21:37	07:14-07:20/6	20:37		19:28		17:24		16:43		16:46	
31	06:07	06:36-06:47/11	06:55				07:35	08:02-08:17/15			08:49	
	21:35	07:11-07:23/12	20:35				17:23				16:47	
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker		216		581		112		53		226		21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:43/23	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06 19:41-20:01/20	21:50
2	08:49 09:20-09:43/23	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08 19:42-19:59/17	21:51
3	08:49 09:27-09:44/17	08:21	07:28	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:26/6	17:38	18:28	20:20	21:09 19:44-19:56/12	21:52
4	08:49 09:27-09:43/16	08:19	07:26	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:26/7	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:26/7	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:26/8	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:26/8	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:40-07:42/2	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:26/9	17:47	18:37	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-07:43/5	07:05 19:51-19:59/8	06:06 06:35-07:06/31	05:31
	16:57 09:19-09:26/7	17:49	18:38	20:30 08:19-09:09/50	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-07:41/6	07:03 19:47-20:03/16	06:04 06:36-07:05/29	05:31
	16:59 09:20-09:25/5	17:51	18:40	20:32 08:20-09:08/48	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-07:41/8	07:01 19:43-20:04/21	06:03 06:38-07:05/27	05:31
	17:00 09:22-09:23/1	17:53	18:42	20:33 08:19-09:06/47	21:22	21:59
12	08:46	08:06	07:08 07:31-07:39/8	06:59 19:41-20:06/25	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44	20:35 08:20-09:05/45	21:23	22:00
13	08:45	08:04	07:06	06:57 19:40-20:07/27	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37 08:21-09:03/42	21:25	22:01
14	08:44	08:02 08:26-08:30/4	07:04	06:54 19:39-20:08/29	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38 08:22-09:02/40	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:50-07:57/7	06:52 19:38-20:09/31	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40 08:23-09:00/37	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:43-08:03/20	06:50 19:37-20:09/32	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42 08:25-08:58/33	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 19:36-20:09/33	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43 08:26-08:55/29	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 19:36-20:10/34	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45 08:28-08:53/25	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 19:35-20:10/35	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47 08:31-08:49/18	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 19:35-20:10/35	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48 08:37-08:43/6	21:35	22:04
21	08:38	07:49 08:14-08:35/21	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50 19:35-20:09/34	21:37	22:04
22	08:37	07:47 08:14-08:35/21	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51 19:35-20:09/34	21:38	22:04
23	08:36	07:44 08:14-08:34/20	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53 19:35-20:09/34	21:39	22:05
24	08:35	07:42 08:15-08:33/18	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55 19:35-20:08/33	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56 19:35-20:07/32	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58 19:35-20:07/32	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00 19:36-20:06/30	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01 19:36-20:04/28	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03 19:37-20:03/26	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05 19:39-20:03/24	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	217	211	767	1581	541	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:49-07:15/26	06:57 19:42-20:03/21	07:44 08:11-08:17/6	07:36	08:26 09:17-09:22/5
	22:04	21:33	20:33 08:19-09:06/47	19:25	17:21	16:42
2	05:34	06:10 06:48-07:16/28	06:59 19:45-20:01/16	07:46 08:11-08:19/8	07:38	08:27 09:17-09:25/8
	22:04	21:32	20:31 08:18-09:06/48	19:23	17:19	16:41 09:03-09:08/5
3	05:35	06:12 06:46-07:16/30	07:00 19:49-19:57/8	07:48 08:12-08:19/7	07:40	08:29 09:16-09:26/10
	22:03	21:30	20:29 08:17-09:07/50	19:21	17:17	16:41 09:02-09:09/7
4	05:36	06:13 06:45-07:15/30	07:02 08:16-09:07/51	07:49 08:14-08:20/6	07:42	08:30 09:16-09:28/12
	22:03	21:29	20:26	19:19	17:16	16:40 09:02-09:11/9
5	05:37	06:15 06:45-07:16/31	07:03 08:15-09:08/53	07:51 08:16-08:20/4	07:43	08:31 09:15-09:28/13
	22:03	21:27	20:24	19:16	17:14	16:40 09:03-09:12/9
6	05:37	06:16 06:44-07:15/31	07:05 08:14-09:08/54	07:52 08:17-08:18/1	07:45	08:33 09:15-09:29/14
	22:02	21:25	20:22	19:14	17:12	16:39 09:04-09:12/8
7	05:38	06:18 06:46-07:16/30	07:06 08:14-09:08/54	07:54	07:47	08:34 09:16-09:31/15
	22:01	21:23	20:20	19:12	17:11	16:39 09:06-09:13/7
8	05:39	06:19 06:47-07:15/28	07:08 08:13-09:08/55	07:56	07:49	08:35 09:15-09:31/16
	22:01	21:22	20:18	19:10	17:09	16:39 09:07-09:14/7
9	05:40	06:21 06:49-07:15/26	07:10 08:13-09:08/55	07:57	07:50	08:36 09:15-09:32/17
	22:00	21:20 19:57-20:01/4	20:15	19:07	17:07	16:38 09:08-09:14/6
10	05:41	06:23 06:50-07:13/23	07:11 07:36-07:37/1	07:59	07:52	08:37 09:09-09:32/23
	22:00	21:18 19:53-20:06/13	20:13 08:12-09:08/56	19:05	17:06	16:38
11	05:42	06:24 06:51-07:12/21	07:13 07:38-07:42/4	08:01	07:54	08:38 09:10-09:33/23
	21:59	21:16 19:50-20:08/18	20:11 08:12-09:08/56	19:03	17:04	16:38
12	05:43	06:26 06:53-07:12/19	07:14 07:39-07:43/4	08:02	07:55	08:39 09:11-09:33/22
	21:58	21:14 19:49-20:10/21	20:09 08:11-09:07/56	19:01	17:03	16:38
13	05:44	06:27 06:54-07:10/16	07:16 07:41-07:44/3	08:04	07:57	08:40 09:12-09:34/22
	21:57	21:12 19:46-20:10/24	20:06 08:12-09:07/55	18:59	17:01	16:38
14	05:45	06:29 06:56-07:08/12	07:17 07:42-07:43/1	08:06 08:55-08:57/2	07:59	08:41 09:13-09:34/21
	21:56	21:10 19:46-20:12/26	20:04 08:11-09:06/55	18:57	17:00	16:38
15	05:46	06:30 06:57-07:08/11	07:19 08:11-09:06/55	08:07 08:51-09:02/11	08:01	08:42 09:14-09:35/21
	21:55	21:09 19:44-20:12/28	20:02	18:55	16:58	16:38
16	05:48	06:32 06:59-07:10/11	07:21 08:11-09:04/53	08:09 08:48-09:03/15	08:02	08:43 09:15-09:36/21
	21:54	21:07 19:43-20:13/30	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:10/10	07:22 08:12-09:04/52	08:11 08:47-09:04/17	08:04	08:44 09:16-09:36/20
	21:53	21:05 19:42-20:13/31	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:11/9	07:24 08:11-09:02/51	08:12 08:46-09:05/19	08:06	08:44 09:16-09:36/20
	21:52	21:03 19:42-20:14/32	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:10/7	07:25 08:12-09:02/50	08:14 08:45-09:06/21	08:07	08:45 09:17-09:37/20
	21:51	21:01 19:40-20:14/34	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:11/6	07:27 08:13-09:01/48	08:16 08:45-09:06/21	08:09	08:46 09:18-09:38/20
	21:50	20:59 19:40-20:14/34	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:10/4	07:28 08:14-08:59/45	08:17 08:44-09:05/21	08:11	08:46 09:18-09:38/20
	21:49	20:57 19:39-20:14/35	19:48	18:42	16:51	16:40
22	05:55 06:59-07:05/6	06:41 07:08-07:09/1	07:30 08:15-08:58/43	08:19 08:45-09:05/20	08:12	08:47 09:19-09:39/20
	21:48	20:54 19:39-20:14/35	19:46	18:40	16:50	16:40
23	05:56 06:56-07:07/11	06:43 19:39-20:13/34	07:32 08:16-08:56/40	08:21 08:47-09:05/18	08:14	08:47 09:19-09:39/20
	21:46	20:52 08:39-08:48/9	19:43 07:56-08:01/5	18:38	16:49	16:41
24	05:58 06:54-07:08/14	06:44 19:39-20:13/34	07:33 08:17-08:54/37	08:23 08:49-09:05/16	08:15	08:48 09:19-09:39/20
	21:45	20:50 08:35-08:54/19	19:41 07:58-08:02/4	18:36	16:48	16:41
25	05:59 06:54-07:10/16	06:46 19:38-20:12/34	07:35 08:18-08:51/33	07:24 07:51-08:04/13	08:17	08:48 09:20-09:40/20
	21:44	20:48 08:31-08:56/25	19:39 07:59-08:02/3	17:34	16:47	16:42
26	06:00 06:53-07:11/18	06:48 19:39-20:12/33	07:36 08:21-08:49/28	07:26 07:52-08:02/10	08:19	08:49 09:20-09:40/20
	21:42	20:46 08:29-08:59/30	19:37 08:01-08:02/1	17:32	16:46	16:43
27	06:02 06:52-07:12/20	06:49 19:39-20:11/32	07:38 08:24-08:46/22	07:28 07:54-08:01/7	08:20	08:49 09:20-09:41/21
	21:41	20:44 08:26-09:00/34	19:34	17:30	16:45	16:43
28	06:03 06:51-07:14/23	06:51 19:39-20:09/30	07:40 08:27-08:41/14	07:29 07:56-07:59/3	08:22	08:49 09:20-09:41/21
	21:40	20:42 08:25-09:02/37	19:32	17:28	16:44	16:44
29	06:05 06:50-07:14/24	06:52 19:40-20:09/29	07:41	07:31	08:23	08:49 09:20-09:41/21
	21:38	20:40 08:23-09:03/40	19:30	17:26	16:43	16:45
30	06:06 06:50-07:14/24	06:54 19:40-20:07/27	07:43	07:33	08:24	08:49 09:20-09:42/22
	21:37	20:37 08:22-09:04/42	19:28	17:25	16:43	16:46
31	06:07 06:50-07:15/25	06:55 19:41-20:05/24		07:35		08:49 09:20-09:42/22
	21:35	20:35 08:20-09:05/45		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	181	1333	1387	246	0	628

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:32-09:56/24 16:48	08:24 17:35	07:32 08:12-08:18/6 18:25	07:23 20:17	06:20 06:44-06:45/1 21:06 06:47-06:53/6	05:36 06:27-06:48/21 21:50
2	08:49 09:33-09:57/24 16:49	08:22 17:36	07:30 18:26	07:21 20:19	06:18 06:42-06:44/2 21:08	05:35 06:28-06:49/21 21:52
3	08:49 09:33-09:58/25 16:50	08:21 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 06:28-06:48/20 21:53
4	08:49 09:33-09:57/24 16:51	08:19 08:57-09:04/7 17:40	07:26 18:30	07:16 20:22	06:14 21:11	05:34 06:29-06:47/18 21:54
5	08:49 09:34-09:58/24 16:52	08:18 08:53-09:08/15 17:42	07:24 18:32	07:14 20:24	06:13 21:13	05:33 06:30-06:47/17 21:55
6	08:49 09:34-09:58/24 16:54	08:16 08:51-09:10/19 17:44	07:21 18:33	07:12 20:25	06:11 06:36-06:38/2 21:14	05:33 06:30-06:46/16 21:55
7	08:48 09:35-09:59/24 16:55	08:14 08:49-09:11/22 17:45	07:19 18:35	07:10 20:27	06:09 06:34-06:37/3 21:16	05:32 06:31-06:47/16 21:56
8	08:48 09:35-09:58/23 16:56	08:13 08:48-09:13/25 17:47	07:17 18:37	07:08 20:28	06:07 06:32-06:36/4 21:17	05:32 06:31-06:46/15 21:57
9	08:47 09:37-09:59/22 16:57	08:11 08:47-09:14/27 17:49	07:15 18:38	07:05 20:30	06:06 06:31-06:43/12 21:19	05:31 06:33-06:45/12 21:58
10	08:47 09:37-09:59/22 16:59	08:09 08:46-09:15/29 17:51	07:13 07:44-07:47/3 18:40	07:03 20:32	06:04 06:29-06:44/15 21:20	05:31 06:34-06:45/11 21:59
11	08:46 09:37-09:59/22 17:00	08:08 08:45-09:16/31 17:53	07:10 07:39-07:52/13 18:42	07:01 07:24-07:25/1 20:33	06:02 06:28-06:46/18 21:22	05:30 06:35-06:45/10 22:00
12	08:46 09:39-09:59/20 17:02	08:06 08:45-09:16/31 17:54	07:08 07:36-07:55/19 18:44	06:59 07:21-07:24/3 20:35	06:01 06:26-06:47/21 21:24	05:30 06:35-06:44/9 22:00
13	08:45 09:39-09:59/20 17:03	08:04 08:44-09:17/33 17:56	07:06 07:34-07:55/21 18:45	06:57 07:19-07:24/5 20:37	05:59 06:25-06:48/23 21:25	05:30 06:36-06:43/7 22:01
14	08:44 09:40-09:59/19 17:04	08:02 08:44-09:17/33 17:58 08:26-08:28/2	07:04 07:32-07:56/24 18:47	06:54 07:17-07:23/6 20:38	05:58 06:25-06:48/23 21:27	05:30 06:38-06:43/5 22:01
15	08:44 09:41-09:58/17 17:06	08:00 08:43-09:17/34 18:00 08:24-08:30/6	07:01 07:31-07:57/26 18:49	06:52 07:15-07:21/6 20:40	05:56 06:25-06:49/24 21:28	05:30 06:39-06:42/3 22:02
16	08:43 09:42-09:58/16 17:08	07:58 08:43-09:17/34 18:02 08:22-08:31/9	06:59 07:30-07:58/28 18:50	06:50 20:42	05:55 06:25-06:50/25 21:30	05:29 22:02
17	08:42 09:44-09:57/13 17:09	07:56 08:43-09:17/34 18:03 08:20-08:31/11	06:57 07:29-07:58/29 18:52	06:48 20:43	05:53 06:24-06:49/25 21:31	05:29 22:03
18	08:41 09:46-09:55/9 17:11	07:54 08:43-09:17/34 18:05 08:18-08:32/14	06:55 07:29-07:58/29 18:54	06:46 20:45	05:52 06:24-06:50/26 21:32	05:29 22:03
19	08:40 09:50-09:53/3 17:12	07:53 08:44-09:16/32 18:07 08:16-08:32/16	06:52 07:28-07:58/30 18:55	06:44 20:47	05:51 06:24-06:50/26 21:34	05:29 22:04
20	08:39 17:14	07:51 08:44-09:16/32 18:09 08:14-08:31/17	06:50 07:28-07:58/30 18:57	06:42 20:48	05:49 06:24-06:51/27 21:35	05:29 22:04
21	08:38 17:16	07:49 08:45-09:15/30 18:11 08:12-08:31/19	06:48 07:28-07:56/28 18:59	06:40 07:03-07:05/2 20:50	05:48 06:23-06:50/27 21:37	05:30 22:04
22	08:37 17:17	07:47 08:45-09:14/29 18:12 08:10-08:30/20	06:46 07:28-07:56/28 19:00	06:38 07:01-07:06/5 20:51	05:47 06:23-06:50/27 21:38	05:30 22:04
23	08:36 17:19	07:45 08:46-09:13/27 18:14 08:08-08:29/21	06:43 07:28-07:55/27 19:02	06:36 06:59-07:06/7 20:53	05:45 06:24-06:50/26 21:39	05:30 22:05
24	08:35 17:21	07:42 08:48-09:11/23 18:16 08:07-08:26/19	06:41 07:28-07:53/25 19:04	06:34 06:57-07:06/9 20:55	05:44 06:24-06:50/26 21:41	05:30 22:05
25	08:33 17:22	07:40 08:49-09:10/21 18:18 08:08-08:25/17	06:39 07:29-07:52/23 19:05	06:32 06:55-07:06/11 20:56	05:43 06:24-06:50/26 21:42	05:31 22:05
26	08:32 17:24	07:38 08:51-09:07/16 18:19 08:08-08:24/16	06:37 07:31-07:50/19 19:07	06:30 06:53-07:05/12 20:58	05:42 06:24-06:50/26 21:43	05:31 22:05
27	08:31 17:26	07:36 08:55-09:04/9 18:21 08:09-08:23/14	06:34 07:32-07:48/16 19:09	06:28 06:51-07:04/13 21:00	05:41 06:25-06:50/25 21:45	05:31 22:05
28	08:30 17:27	07:34 08:10-08:20/10 18:23	06:32 07:34-07:44/10 19:10	06:26 06:50-07:03/13 21:01	05:40 06:25-06:49/24 21:46	05:32 06:41-06:45/4 22:05
29	08:28 17:29	 	07:30 20:12	06:24 06:48-07:02/14 21:03	05:39 06:26-06:50/24 21:47	05:32 06:40-06:46/6 22:05
30	08:27 17:31	 	07:28 20:14	06:22 06:46-06:55/9 21:05	05:38 06:26-06:50/24 21:48	05:33 06:40-06:48/8 22:04
31	08:25 17:33	 	07:25 20:15	 	05:37 06:27-06:49/22 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	375	838	434	116	560	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:24/1 20:33	07:44 08:14-08:34/20 19:25	07:36 08:16-08:44/28 17:21	08:26 09:19-09:41/22 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:17-08:32/15 19:23	07:38 08:17-08:44/27 17:19	08:27 09:20-09:42/22 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:19-08:28/9 19:21	07:40 08:17-08:42/25 17:17	08:29 09:20-09:42/22 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 19:19	07:42 08:19-08:41/22 17:16	08:30 09:20-09:43/23 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 19:16	07:43 08:21-08:39/18 17:14	08:31 09:20-09:44/24 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 19:14	07:45 08:23-08:37/14 17:12	08:33 09:20-09:44/24 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 19:12	07:47 08:27-08:33/6 17:11	08:34 09:21-09:45/24 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 09:21-09:45/24 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 17:07	08:36 09:21-09:46/25 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 09:22-09:46/24 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 09:22-09:46/24 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 19:01	07:56 17:03	08:39 09:22-09:47/25 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:44-08:52/8 18:59	07:57 17:01	08:40 09:23-09:47/24 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:42-08:54/12 18:57	07:59 17:00	08:41 09:23-09:48/25 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 09:25-09:38/13 18:54 08:41-08:56/15	08:01 16:58	08:42 09:24-09:48/24 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 09:22-09:39/17 18:52 08:39-08:56/17	08:02 16:57	08:43 09:25-09:49/24 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:39-08:56/17	08:04 16:56	08:44 09:25-09:50/25 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:39-08:59/20	08:06 16:55	08:45 09:25-09:49/24 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-09:00/20	08:07 16:53	08:45 09:26-09:50/24 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-09:02/20	08:09 16:52	08:46 09:27-09:51/24 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:06-07:11/5 20:57	07:28 08:14-08:41/27 19:48	08:17 09:15-09:46/31 18:42 08:43-09:01/18	08:11 16:51	08:46 09:27-09:51/24 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:08-07:10/2 20:55	07:30 08:13-08:42/29 19:46	08:19 09:14-09:46/32 18:40 08:45-09:02/17	08:12 16:50	08:47 09:28-09:52/24 16:40
23	05:56 06:34-07:00/26 21:46	06:43 20:52	07:32 08:12-08:41/29 19:43	08:21 09:14-09:47/33 18:38 08:47-09:02/15	08:14 09:26-09:28/2 16:49	08:48 09:28-09:52/24 16:41
24	05:58 06:34-07:00/26 21:45	06:44 20:50	07:33 08:12-08:41/29 19:41	08:23 09:14-09:47/33 18:36 08:49-09:02/13	08:15 09:23-09:32/9 16:48	08:48 09:28-09:52/24 16:41
25	05:59 06:34-07:01/27 21:44	06:46 20:48	07:35 08:11-08:40/29 19:39	07:24 08:14-08:47/33 17:34 07:51-08:02/11	08:17 09:22-09:35/13 16:47	08:48 09:29-09:53/24 16:42
26	06:00 06:34-07:00/26 21:42	06:48 20:46	07:36 08:11-08:40/29 19:37	07:26 08:14-08:47/33 17:32 07:53-08:01/8	08:19 09:21-09:36/15 16:46	08:49 09:29-09:53/24 16:43
27	06:02 06:34-07:00/26 21:41	06:49 20:44	07:38 08:12-08:40/28 19:34	07:28 08:13-08:46/33 17:30 07:54-07:59/5	08:20 09:20-09:37/17 16:45	08:49 09:29-09:54/25 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:23/6 20:42	07:40 08:12-08:38/26 19:32	07:29 08:13-08:46/33 17:28 07:56-07:57/1	08:22 09:20-09:39/19 16:44	08:49 09:30-09:54/24 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:24/6 20:40	07:41 08:13-08:38/25 19:30	07:31 08:14-08:46/32 17:26	08:23 09:20-09:39/19 16:43	08:49 09:30-09:55/25 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:25/5 20:38	07:43 08:13-08:36/23 19:28	07:33 08:14-08:46/32 17:24	08:25 09:20-09:41/21 16:43	08:49 09:31-09:55/24 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:24/3 20:35		07:35 08:15-08:45/30 17:23		08:49 09:31-09:56/25 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	195	390	751	255	744

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:08-10:30/22	08:24 09:00-09:29/29	07:32	07:23 07:48-07:54/6	06:20	05:36 21:09-21:19/10
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 10:09-10:30/21	08:22 09:00-09:29/29	07:30	07:21 07:51-08:00/9	06:18	05:36 21:08-21:19/11
	16:49	17:36	18:26	20:19 07:43-07:46/3	21:08	21:52
3	08:49 10:10-10:30/20	08:21 08:59-09:29/30	07:28	07:19 07:41-08:03/22	06:16	05:35 21:08-21:21/13
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:10-10:29/19	08:19 09:00-09:30/30	07:26	07:16 07:39-08:06/27	06:15	05:34 21:07-21:21/14
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:12-10:30/18	08:18 09:00-09:30/30	07:24	07:14 07:37-08:07/30	06:13	05:33 21:07-21:23/16
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 10:12-10:29/17	08:16 09:00-09:30/30	07:21	07:12 07:34-08:07/33	06:11	05:33 21:07-21:23/16
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 10:14-10:28/14	08:14 09:00-09:30/30	07:19	07:10 07:32-08:08/36	06:09 06:34-06:35/1	05:32 06:01-06:02/1
	16:55	17:45	18:35	20:27	21:16	21:56 21:07-21:24/17
8	08:48 10:15-10:27/12	08:13 09:01-09:30/29	07:17	07:08 07:32-08:09/37	06:08 06:32-06:33/1	05:32 06:01-06:03/2
	16:56	17:47	18:37	20:28	21:17	21:57 21:06-21:24/18
9	08:47 10:18-10:26/8	08:11 09:01-09:30/29	07:15	07:05 07:33-08:09/36	06:06	05:31 06:00-06:03/3
	16:57	17:49	18:38	20:30 07:28-07:30/2	21:19	21:58 21:07-21:26/19
10	08:47	08:09 09:02-09:29/27	07:13	07:03 07:34-08:09/35	06:04	05:31 06:00-06:04/4
	16:59	17:51	18:40	20:32 07:26-07:31/5	21:20	21:59 21:07-21:27/20
11	08:46	08:08 09:02-09:28/26	07:10	07:01 07:37-08:09/32	06:03	05:30 06:00-06:04/4
	17:00	17:53	18:42	20:33 07:24-07:31/7	21:22	22:00 21:06-21:27/21
12	08:46	08:06 09:03-09:27/24	07:08	06:59 07:35-08:08/33	06:01	05:30 05:59-06:04/5
	17:02	17:54	18:44	20:35 07:21-07:30/9	21:24	22:00 21:06-21:27/21
13	08:45	08:04 09:04-09:25/21	07:06	06:57 07:35-08:08/33	05:59	05:30 05:59-06:05/6
	17:03	17:56	18:45	20:37 07:19-07:29/10	21:25	22:01 21:07-21:28/21
14	08:44	08:02 09:06-09:24/18	07:04	06:55 07:35-08:08/33	05:58	05:30 05:59-06:05/6
	17:05	17:58	18:47	20:38 07:17-07:28/11	21:27	22:01 21:07-21:29/22
15	08:44	08:00 09:08-09:21/13	07:01	06:52 07:35-08:07/32	05:56	05:30 05:59-06:05/6
	17:06	18:00	18:49	20:40 07:18-07:26/8	21:28	22:02 21:07-21:29/22
16	08:43	07:58 09:12-09:17/5	06:59	06:50 07:35-08:07/32	05:55	05:29 05:59-06:06/7
	17:08	18:02	18:50	20:42	21:30	22:02 21:07-21:30/23
17	08:42 09:10-09:12/2	07:56	06:57	06:48 07:36-08:06/30	05:53	05:29 05:59-06:06/7
	17:09	18:03	18:52	20:43	21:31	22:03 21:07-21:30/23
18	08:41 09:09-09:13/4	07:54	06:55	06:46 07:36-08:05/29	05:52	05:29 05:59-06:06/7
	17:11	18:05	18:54	20:45	21:32	22:03 21:07-21:30/23
19	08:40 09:08-09:14/6	07:53	06:52	06:44 07:07-07:09/2	05:51	05:29 05:59-06:06/7
	17:12	18:07	18:55	20:47 07:37-08:04/27	21:34	22:04 21:08-21:30/22
20	08:39 09:07-09:15/8	07:51	06:50	06:42 07:05-07:08/3	05:49	05:29 05:59-06:07/8
	17:14	18:09	18:57	20:48 07:38-08:02/24	21:35	22:04 21:08-21:30/22
21	08:38 09:05-09:15/10	07:49	06:48	06:40 07:03-07:06/3	05:48	05:30 05:59-06:07/8
	17:16	18:11	18:59	20:50 07:39-08:00/21	21:37	22:04 21:08-21:30/22
22	08:37 09:04-09:16/12	07:47	06:46	06:38 07:01-07:03/2	05:47	05:30 06:00-06:08/8
	17:17	18:12	19:00	20:51 07:40-07:58/18	21:38	22:04 21:08-21:30/22
23	08:36 09:03-09:17/14	07:45	06:43	06:36 06:59-07:03/4	05:45	05:30 06:00-06:07/7
	17:19	18:14	19:02	20:53 07:43-07:55/12	21:39	22:05 21:09-21:31/22
24	08:35 09:02-09:18/16	07:42	06:41	06:34 06:57-07:02/5	05:44	05:30 06:00-06:07/7
	17:21	18:16	19:04	20:55 07:48-07:49/1	21:41	22:05 21:08-21:31/23
25	08:33 09:00-09:21/21	07:40	06:39	06:32 06:55-07:02/7	05:43	05:31 06:01-06:08/7
	17:22	18:18	19:05	20:56	21:42	22:05 21:08-21:31/23
26	08:32 08:59-09:23/24	07:38	06:37	06:30 06:53-07:01/8	05:42	05:31 06:01-06:08/7
	17:24	18:19	19:07	20:58	21:43	22:05 21:09-21:32/23
27	08:31 08:57-09:24/27	07:36	06:34	06:28 06:51-07:00/9	05:41	05:31 06:02-06:09/7
	17:26	18:21	19:09	21:00	21:45	22:05 21:09-21:31/22
28	08:30 08:57-09:25/28	07:34	06:32 06:55-06:58/3	06:26 06:51-07:00/9	05:40	05:32 06:02-06:08/6
	17:27	18:23	19:10	21:01	21:46	22:05 21:10-21:32/22
29	08:28 08:57-09:26/29		07:30 07:52-07:57/5	06:24 06:53-06:58/5	05:39	05:32 06:03-06:09/6
	17:29		20:12	21:03	21:47	22:05 21:10-21:31/21
30	08:27 08:58-09:27/29		07:28 07:50-07:56/6	06:22	05:38 21:12-21:17/5	05:33 06:03-06:08/5
	17:31		20:14	21:05	21:48	22:04 21:10-21:32/22
31	08:25 08:58-09:28/30		07:25 07:48-07:56/8		05:37 21:10-21:18/8	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	411	400	22	740	15	737

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26
	22:04 21:10-21:31/21	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27
	22:04 21:11-21:31/20	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 10:01-10:09/8
	22:03 21:12-21:31/19	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 10:01-10:12/11
	22:03 21:12-21:31/19	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15 06:43-06:44/1	07:03 07:29-08:05/36	07:51	07:43 08:29-09:00/31	08:31 09:59-10:13/14
	22:03 21:12-21:30/18	21:27	20:24	19:16	17:14	16:40
6	05:37 21:13-21:30/17	06:16 06:44-06:45/1	07:05 07:30-08:03/33	07:52	07:45 08:30-09:00/30	08:33 09:59-10:15/16
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:14-21:29/15	06:18	07:06 07:32-08:02/30	07:54	07:47 08:30-09:00/30	08:34 09:59-10:17/18
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 21:14-21:29/15	06:19	07:08 07:33-08:00/27	07:56	07:49 08:30-09:00/30	08:35 09:59-10:17/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:15-21:28/13	06:21	07:10 07:35-07:58/23	07:57	07:50 08:31-09:00/29	08:36 09:58-10:18/20
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 21:16-21:28/12	06:23	07:11 07:43-07:54/11	07:59	07:52 08:31-09:00/29	08:37 09:58-10:19/21
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 21:17-21:27/10	06:24	07:13 07:40-07:46/6	08:01	07:54 08:30-09:00/30	08:38 09:58-10:20/22
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 21:18-21:27/9	06:26	07:14 07:39-07:47/8	08:02	07:56 08:29-08:58/29	08:39 09:58-10:20/22
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 21:20-21:26/6	06:27	07:16 07:41-07:48/7	08:04	07:57 08:29-08:58/29	08:40 09:58-10:21/23
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 21:23-21:25/2	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 08:29-08:57/28	08:41 09:59-10:22/23
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30 06:57-07:07/10	07:19 07:44-07:47/3	08:07	08:01 08:30-08:57/27	08:42 09:59-10:23/24
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:45-07:46/1	08:09	08:02 08:32-08:56/24	08:43 09:59-10:24/25
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:08/8	07:22	08:11	08:04 08:34-08:55/21	08:44 10:00-10:24/24
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:08/6	07:24	08:12	08:06 08:36-08:52/16	08:45 10:00-10:24/24
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:08/5	07:25	08:14	08:07 08:37-08:51/14	08:45 10:00-10:25/25
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:09/4	07:27	08:16	08:09 08:39-08:51/12	08:46 10:01-10:26/25
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28	08:17	08:11 08:41-08:51/10	08:46 10:01-10:26/25
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30	08:19	08:12 08:43-08:51/8	08:47 10:02-10:27/25
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14 08:44-08:50/6	08:47 10:02-10:27/25
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33	08:23	08:15 08:46-08:50/4	08:48 10:02-10:27/25
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35	07:24	08:17 08:48-08:50/2	08:48 10:04-10:28/24
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36	07:26 08:41-08:49/8	08:19	08:49 10:04-10:28/24
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38	07:28 08:37-08:51/14	08:20	08:49 10:04-10:29/25
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22	08:49 10:05-10:29/24
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23	08:49 10:05-10:29/24
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25	08:49 10:06-10:29/23
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 10:07-10:29/22
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	212	431	347	114	555	629

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:49	08:24		07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34		18:25		20:17		21:06		21:50	
2	08:49	08:22		07:30		07:21		06:18		05:35	06:04-06:14/10
	16:49	17:36		18:26		20:18		21:08		21:51	
3	08:49	08:21		07:28		07:19		06:16		05:35	06:03-06:14/11
	16:50	17:38		18:28		20:20		21:09		21:52	
4	08:49	08:19		07:26		07:16		06:14		05:34	06:02-06:14/12
	16:51	17:40		18:30		20:22		21:11		21:53	
5	08:49	08:18		07:23	07:46-07:47/1	07:14		06:13		05:33	06:02-06:14/12
	16:52	17:42		18:31		20:23		21:13		21:54	
6	08:49	08:16		07:21	07:44-07:47/3	07:12		06:11		05:33	06:01-06:14/13
	16:53	17:43		18:33		20:25		21:14		21:55	
7	08:48	08:14		07:19	07:42-07:47/5	07:10		06:09		05:32	06:01-06:14/13
	16:55	17:45		18:35		20:27		21:16		21:56	
8	08:48	08:13		07:17	07:40-07:47/7	07:07		06:07		05:32	06:00-06:14/14
	16:56	17:47		18:37		20:28		21:17		21:57	
9	08:47	08:11		07:15	07:37-07:46/9	07:05		06:06		05:31	06:00-06:14/14
	16:57	17:49		18:38		20:30		21:19		21:58	
10	08:47	08:09		07:12	07:35-07:45/10	07:03		06:04		05:31	06:00-06:14/14
	16:59	17:51		18:40		20:32		21:20		21:59	
11	08:46	08:07		07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52		18:42		20:33		21:22		21:59	
12	08:46	08:06		07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54		18:43		20:35		21:23		22:00	
13	08:45	08:04		07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:44	08:02	08:26-08:27/1	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58		18:47		20:38		21:26		22:01	
15	08:44	08:00	08:24-08:27/3	07:01		06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	08:22-08:27/5	06:59		06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01		18:50		20:42		21:29		22:02	
17	08:42	07:56	08:20-08:26/6	06:57		06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03		18:52		20:43		21:31		22:03	
18	08:41	07:54	08:18-08:25/7	06:55		06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05		18:54		20:45		21:32		22:03	
19	08:40	07:52	08:17-08:24/7	06:52	07:15-07:16/1	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07		18:55		20:46		21:34		22:04	
20	08:39	07:50		06:50	07:13-07:16/3	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09		18:57		20:48		21:35		22:04	
21	08:38	07:48		06:48	07:10-07:15/5	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10		18:59		20:50		21:37		22:04	
22	08:37	07:46		06:46	07:08-07:15/7	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12		19:00		20:51		21:38		22:04	
23	08:36	07:44		06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14		19:02		20:53		21:39		22:05	
24	08:35	07:42		06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16		19:04		20:55		21:41		22:05	
25	08:33	07:40		06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18		19:05		20:56		21:42		22:05	
26	08:32	07:38		06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19		19:07		20:58		21:43		22:05	
27	08:31	07:36		06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34		06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29			20:12		21:03		21:47		22:04	
30	08:27			07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31			20:14		21:04		21:48		22:04	
31	08:25			07:25				05:37	06:05-06:13/8		
	17:33			20:15				21:49			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	29		83		23		33		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:19/15	06:09	06:57	07:44	07:36	08:26
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34 06:04-06:19/15	06:10	06:58	07:46 08:14-08:22/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:19/14	06:12	07:00	07:47 08:12-08:23/11	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:20/14	06:13	07:02	07:49 08:14-08:24/10	07:42	08:30
	22:03	21:29	20:26	19:18	17:15	16:40
5	05:36 06:06-06:19/13	06:15	07:03	07:51 08:16-08:24/8	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:20/13	06:16	07:05	07:52 08:17-08:23/6	07:45	08:32
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:20/12	06:18	07:06	07:54 08:19-08:23/4	07:47	08:34
	22:01	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:21/12	06:19	07:08	07:56 08:21-08:23/2	07:49	08:35
	22:01	21:22	20:17	19:10	17:09	16:39
9	05:40 06:10-06:21/11	06:21	07:09	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:21/10	06:22	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:22/9	06:26	07:14	08:02	07:55	08:39
	21:58	21:14	20:08	19:01	17:03	16:38
13	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:22/7	06:29	07:17	08:06	07:59	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:22/6	06:30	07:19	08:07	08:01	08:42
	21:55	21:08	20:02	18:54	16:58	16:38
16	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:21/3	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:21/2	06:35	07:24	08:12	08:06	08:44
	21:52	21:03	19:55	18:48	16:54	16:38
19	05:51	06:36	07:25 07:51-07:58/7	08:14	08:07	08:45
	21:51	21:01	19:52	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-08:00/8	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 07:53-08:00/7	08:17	08:11	08:46
	21:49	20:56	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 07:55-08:01/6	08:19	08:12	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:15/6	07:31 07:56-08:00/4	08:21 08:47-08:55/8	08:14	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:57	06:44 07:11-07:17/6	07:33 07:58-07:59/1	08:22 08:49-08:56/7	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 07:12-07:17/5	07:35	07:24 07:51-07:57/6	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:47 07:14-07:18/4	07:36	07:26 07:53-07:57/4	08:18	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02	06:49 07:15-07:17/2	07:38	07:28 07:54-07:57/3	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:39	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:04	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:24	08:49
	21:37	20:37	19:27	17:24	16:43	16:46
31	06:07	06:55		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	178	23	33	77	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:16/1	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:16/4	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50 07:17-07:18/1	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	9	16	0	1	22	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:52-07:04/12	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06 06:44-06:50/6	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:54-07:01/7	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08 06:42-06:48/6	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:47/7	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:40-06:46/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:56/7	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:57/7	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 07:02-07:11/9	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16 06:51-06:57/6	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 07:00-07:13/13	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14 06:53-06:58/5	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-07:14/20	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-07:15/19	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30 06:57-07:15/18	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32 06:59-07:16/17	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33 07:00-07:16/16	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35 07:02-07:16/14	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44 07:07-07:08/1	05:50	05:29 05:59-06:09/10	05:51	06:36 07:03-07:15/12	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42 07:05-07:09/4	05:49	05:29 05:59-06:10/11	05:52	06:38 07:05-07:15/10	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40 07:03-07:09/6	05:48	05:29 05:59-06:10/11	05:54	06:40 07:06-07:14/8	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38 07:01-07:10/9	05:47	05:30 06:00-06:11/11	05:55	06:41 07:08-07:14/6	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36 06:59-07:10/11	05:45	05:30 06:00-06:11/11	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34 06:57-07:10/13	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:09/14	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:09/16	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-07:08/17	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-07:07/18	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-07:07/19	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:51-07:06/15	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05 06:46-06:50/4	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	147	44	230	50	190	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-08:50/2 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:46-08:49/3 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:45-08:50/5 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:43-08:49/6 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:41-08:48/7 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:39-08:47/8 17:45	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:38-08:46/8 17:47	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:36-08:45/9 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:34-08:43/9 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:32-08:41/9 17:53	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 18:50	06:50 07:13-07:14/1 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 18:52	06:48 07:11-07:13/2 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 18:54	06:46 07:09-07:11/2 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 18:55	06:44 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:05-09:28/23 17:17	07:47 08:27-08:33/6 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:06-09:28/22 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:06-09:27/21 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:07-09:27/20 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 09:09-09:27/18 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 09:09-09:25/16 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 09:11-09:25/14 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 09:13-09:22/9 17:29		07:30 07:52-08:09/17 20:12	06:24 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 17:31		07:28 07:50-08:09/19 20:14	06:22 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 17:33		07:25 07:48-08:08/20 20:15		05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	321	234	105	82	108	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:34/30	06:09	06:57	07:44	07:36 08:04-08:13/9	08:26 08:57-09:04/7
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34 06:04-06:34/30	06:10	06:59	07:46	07:38 08:06-08:15/9	08:27 08:59-09:05/6
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:34/29	06:12	07:00	07:48	07:40 08:08-08:16/8	08:29 09:00-09:04/4
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:34/28	06:13	07:02	07:49	07:42 08:09-08:17/8	08:30 09:02-09:05/3
	22:03	21:29	20:26	19:19	17:16	16:40
5	05:37 06:06-06:33/27	06:15	07:03 07:29-07:32/3	07:51	07:43 08:11-08:18/7	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:33/26	06:16	07:05 07:30-07:32/2	07:52	07:45 08:13-08:19/6	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:33/25	06:18	07:06 07:32-07:33/1	07:54	07:47 08:15-08:20/5	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:33/24	06:19	07:08 07:45-07:56/11	07:56	07:49 08:17-08:20/3	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:33/23	06:21	07:10 07:43-07:58/15	07:57	07:50 08:19-08:20/1	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:33/22	06:23	07:11 07:36-07:59/23	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:32/20	06:24	07:13 07:38-08:00/22	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:32/19	06:26	07:14 07:39-07:59/20	08:02	07:55	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:31/17	06:27	07:16 07:41-08:00/19	08:04	07:57 08:45-08:54/9	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:30/15	06:29	07:17 07:42-07:59/17	08:06	07:59 08:43-08:57/14	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:29/13	06:30	07:19 07:44-07:59/15	08:07	08:01 08:42-08:58/16	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:17-06:28/11	06:32	07:20 07:45-07:58/13	08:09	08:02 08:42-09:00/18	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:26/8	06:33	07:22 07:47-07:58/11	08:11	08:04 08:41-09:01/20	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:23/4	06:35	07:24 07:48-07:56/8	08:12	08:06 08:40-09:01/21	08:44
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37	07:25 07:50-07:55/5	08:14	08:07 08:40-09:02/22	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-07:53/1	08:16 08:57-09:05/8	08:09 08:40-09:03/23	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 08:54-09:07/13	08:11 08:41-09:03/22	08:46
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:52-09:09/17	08:12 08:43-09:04/21	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:51-09:10/19	08:14 08:44-09:03/19	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:32/3	06:44	07:33	08:23 08:51-09:11/20	08:15 08:46-09:04/18	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:34/6	06:46 07:12-07:14/2	07:35	07:24 07:51-08:11/20	08:17 08:48-09:05/17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:35/6	06:48 07:14-07:16/2	07:36	07:26 07:53-08:11/18	08:19 08:49-09:04/15	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:36/6	06:49 07:15-07:16/1	07:38	07:28 07:54-08:11/17	08:20 08:51-09:05/14	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:37/5	06:51	07:39	07:29 07:56-08:11/15	08:22 08:53-09:05/12	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:37/4	06:52	07:41	07:31 07:58-08:10/12	08:23 08:54-09:05/11	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:37/3	06:54	07:43	07:33 08:00-08:10/10	08:24 08:56-09:05/9	08:49
	21:37	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:38/2	06:55		07:35 08:02-08:11/9		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	406	5	186	178	357	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23 07:45-07:48/3	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21 07:43-07:46/3	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00 07:26-07:28/2	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:28/1	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:31/1	06:07	05:32	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:30/2	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11 07:36-07:39/3	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13 07:38-07:41/3	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14 07:39-07:41/2	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45 06:15-06:19/4	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:29	05:46 06:16-06:20/4	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59 07:22-07:23/1	06:50	05:55	05:29	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57 07:19-07:21/2	06:48	05:53	05:29	05:48 06:18-06:21/3	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:21/2	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:22/1	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44 06:11-06:12/1	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43 06:10-06:12/2	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42 06:09-06:12/3	05:31	06:00	06:47	07:36 08:01-08:03/2	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41 06:08-06:11/3	05:31	06:02	06:49	07:38 08:03-08:05/2	07:28	08:20	08:49
	17:26	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40 06:07-06:11/4	05:32	06:03	06:51	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:10/4	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38 06:07-06:09/2	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25 07:48-07:50/2		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	5	9	19	0	20	0	16	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:09	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17 07:42-07:43/1	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30 07:52-07:53/1	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27 07:50-07:51/1	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	2	3	0	0	0	3	2	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref A WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	354	711	1.313	1.566	876	635	560	8.534

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:13/9	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51 06:17-06:33/16	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52 06:19-06:33/14	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:15/12	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53 06:19-06:33/14	22:04 06:30-06:33/3	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:15/13	05:36 06:06-06:23/17	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54 06:19-06:32/13	22:03 06:29-06:35/6	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:16/14	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55 06:20-06:32/12	22:03 06:28-06:36/8	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:16/15	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56 06:21-06:31/10	22:02 06:27-06:37/10	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:17/16	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56 06:22-06:31/9	22:02 06:27-06:38/11	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57 06:23-06:29/6	22:01 06:27-06:39/12	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58 06:24-06:29/5	22:00 06:26-06:40/14	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:18/18	05:41 06:11-06:22/11	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00 06:26-06:40/14	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:00-06:19/19	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59 06:26-06:41/15	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:21/8	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58 06:26-06:42/16	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:20/6	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57 06:25-06:42/17	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:30 06:00-06:19/19	05:45 06:15-06:19/4	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56 06:25-06:43/18	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:29/7	05:29 06:00-06:20/20	05:46 06:25-06:43/18	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:31/10	05:29 06:01-06:20/19	05:47 06:25-06:43/18	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:31/12	05:29 06:01-06:20/19	05:49 06:25-06:44/19	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52 06:18-06:32/14	05:29 06:01-06:20/19	05:50 06:24-06:44/20	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51 06:17-06:33/16	05:29 06:01-06:21/20	05:51 06:24-06:44/20	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:34/18	05:29 06:01-06:21/20	05:52 06:24-06:44/20	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:15-06:33/18	05:30 06:01-06:21/20	05:54 06:25-06:44/19	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47 06:15-06:34/19	05:30 06:02-06:22/20	05:55 06:25-06:44/19	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:15-06:34/19	05:30 06:02-06:22/20	05:56 06:25-06:44/19	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44 06:15-06:34/19	05:30 06:02-06:22/20	05:58 06:26-06:43/17	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43 06:15-06:34/19	05:31 06:03-06:22/19	05:59 06:28-06:43/15	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:15-06:34/19	05:31 06:03-06:22/19	06:00 06:29-06:42/13	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:15-06:34/19	05:31 06:03-06:22/19	06:02 06:30-06:41/11	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:15-06:34/19	05:32 06:03-06:23/20	06:03 06:32-06:41/9	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:07-06:08/1	05:32 06:03-06:22/19	06:05 06:33-06:39/6	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47 06:17-06:34/17	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:11/5	05:33 06:04-06:23/19	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48 06:17-06:34/17	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:12/7		06:07	06:55		07:35		08:50
	17:33		20:15		21:49 06:17-06:34/17		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	296	630	575	0	0	0	0	0

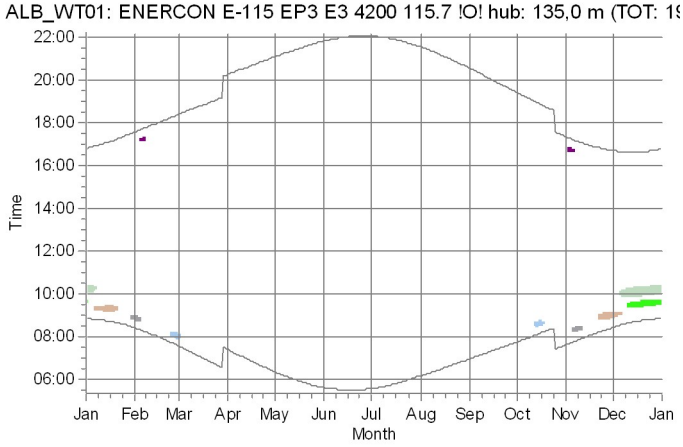
Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

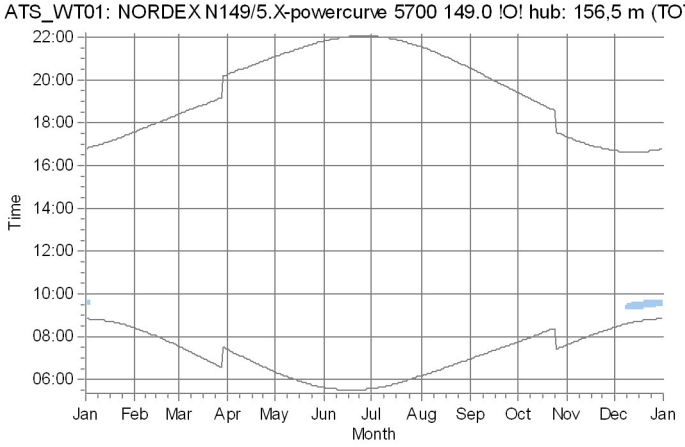
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

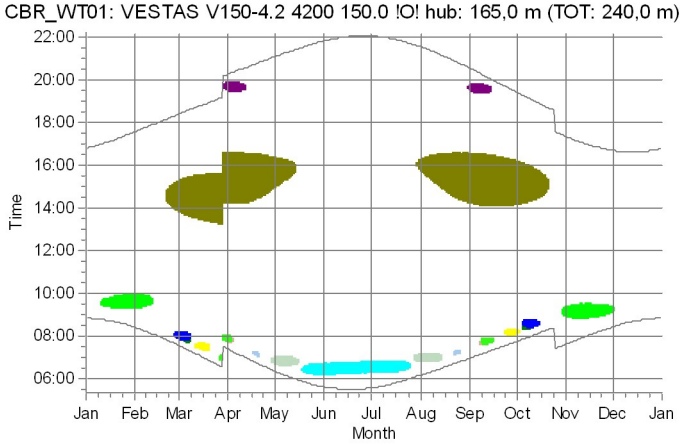
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 1



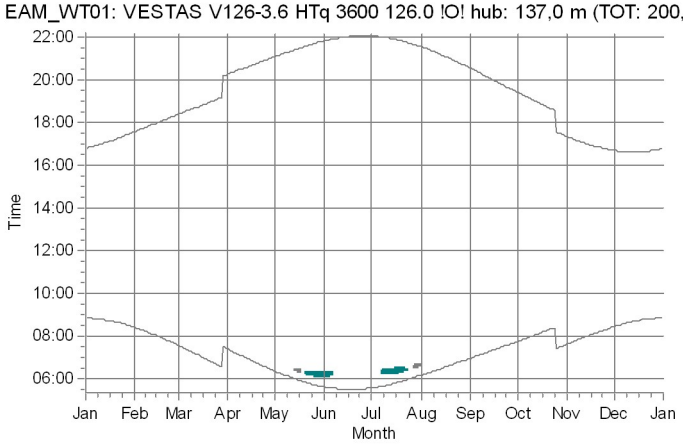
ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0



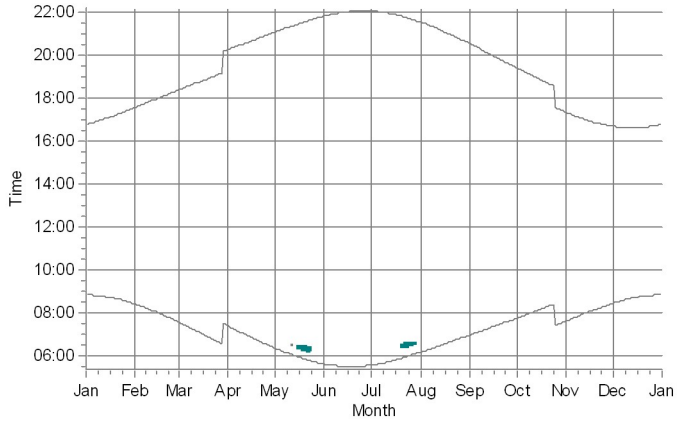
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m)



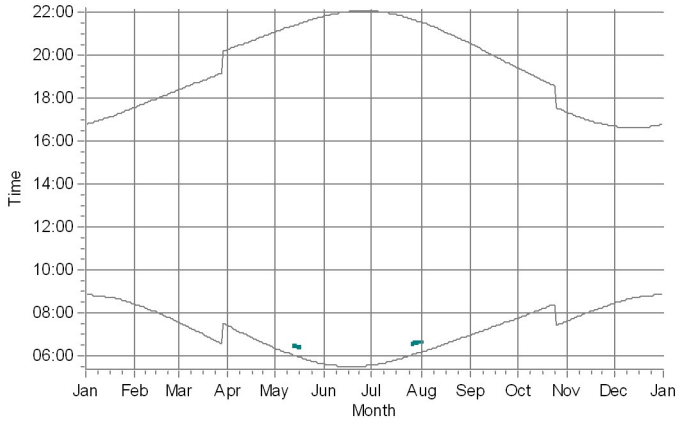
EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (4



EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200



EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (4



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

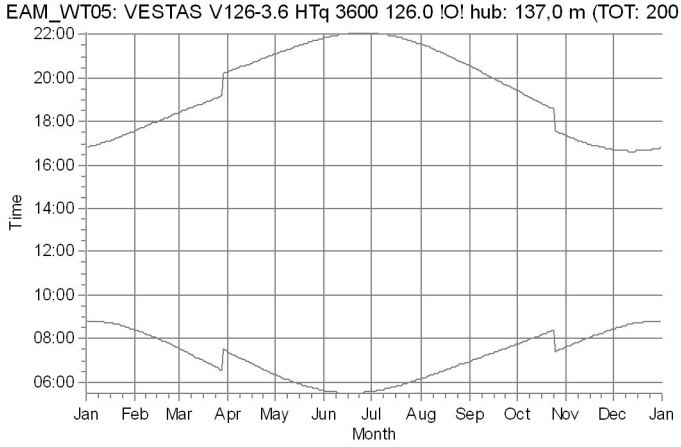
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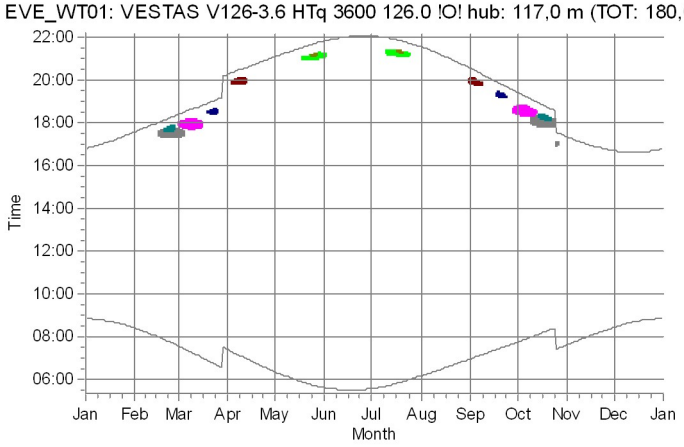
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

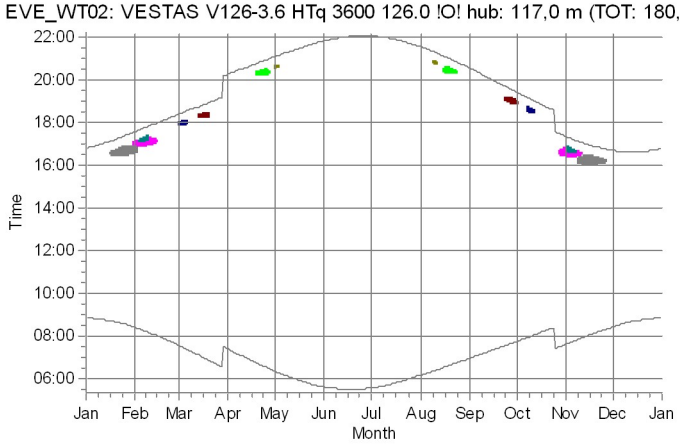
EAM_WT05: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200



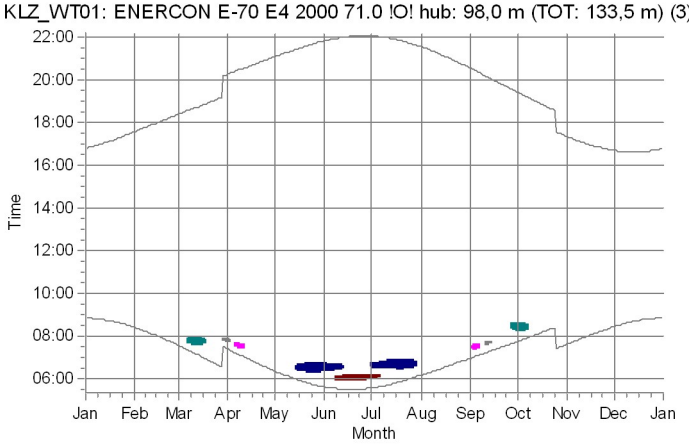
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52



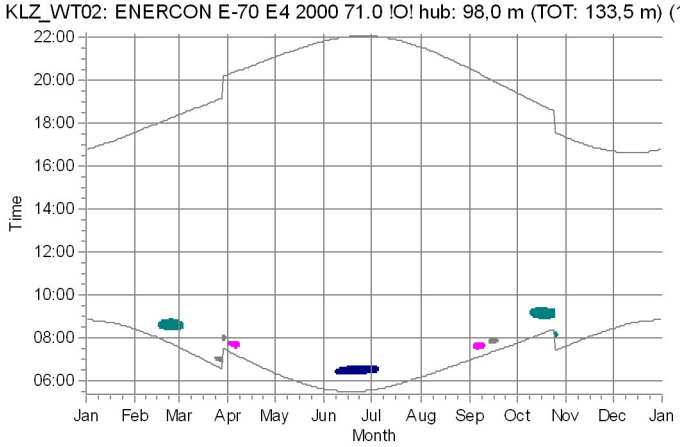
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,



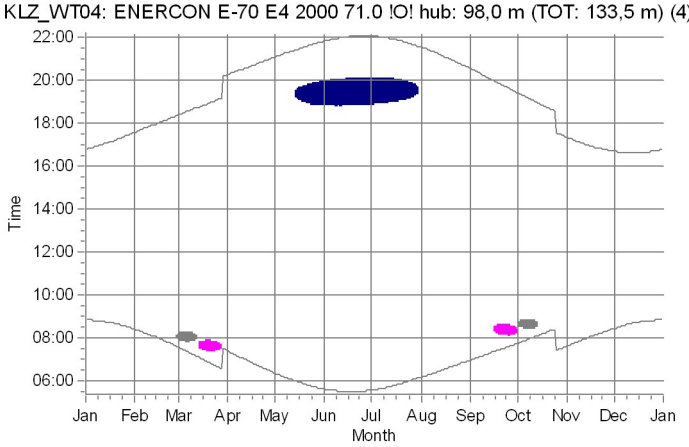
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)



KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)



Shadow receptors

- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent

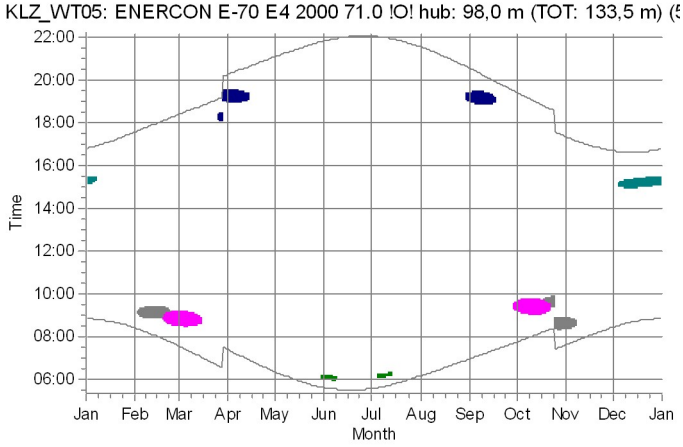
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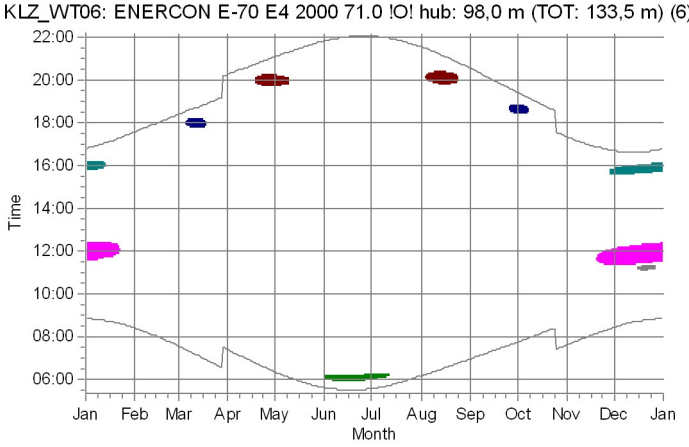
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

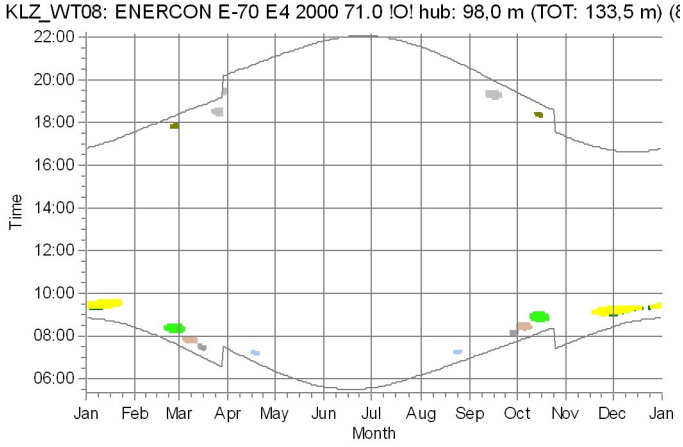
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5



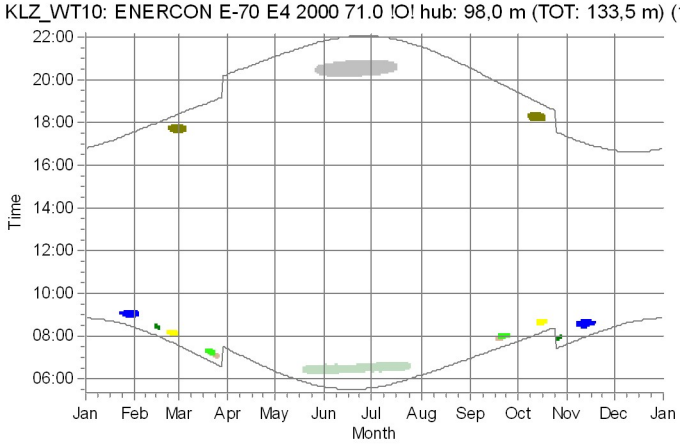
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)



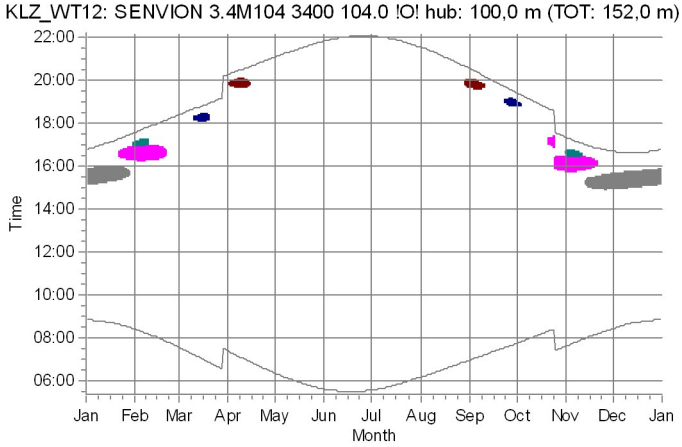
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8



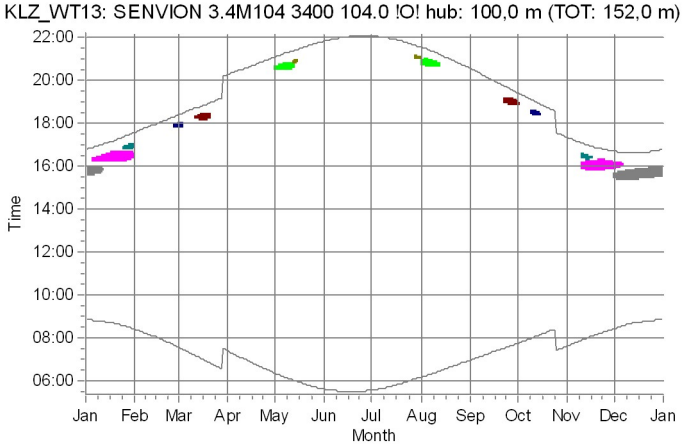
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)



KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m)



KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

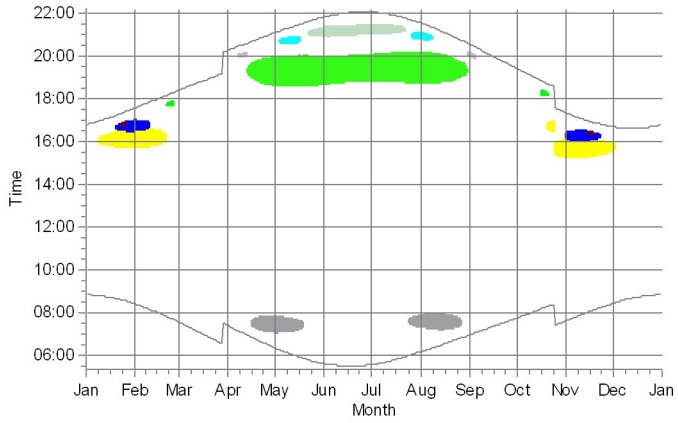
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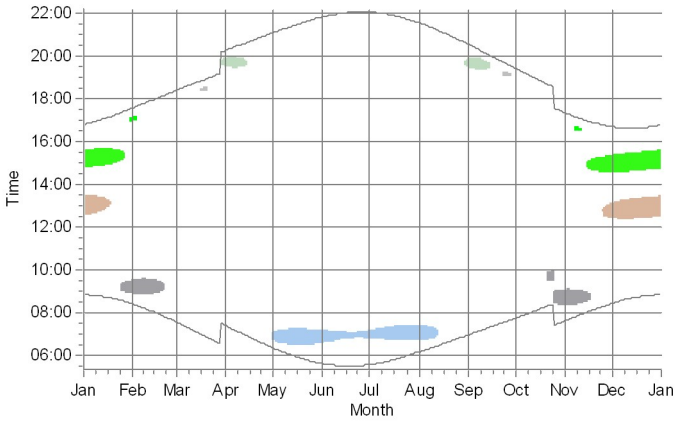
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

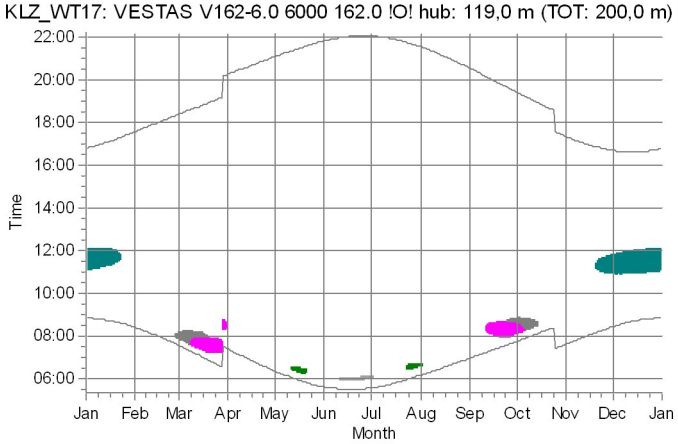
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m)



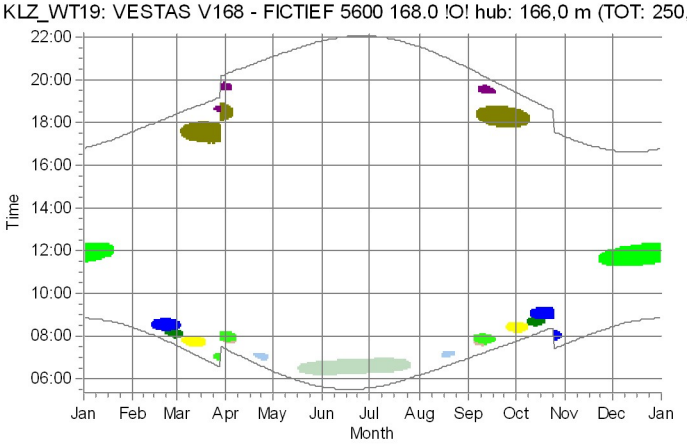
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)



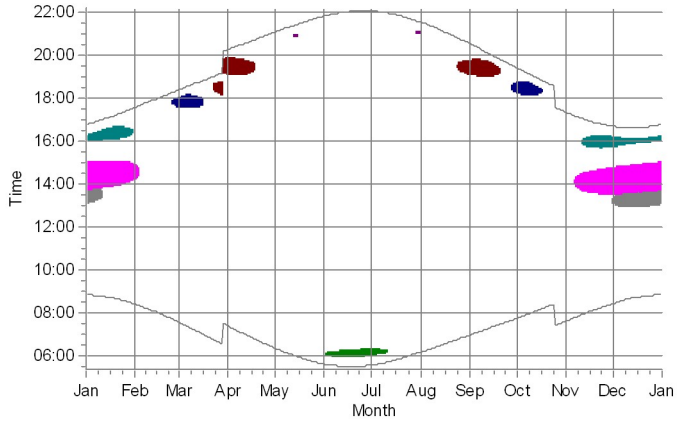
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m)



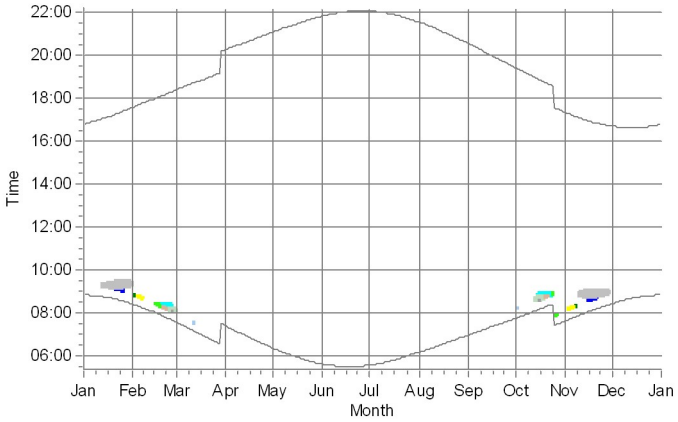
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (7



KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m)



MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

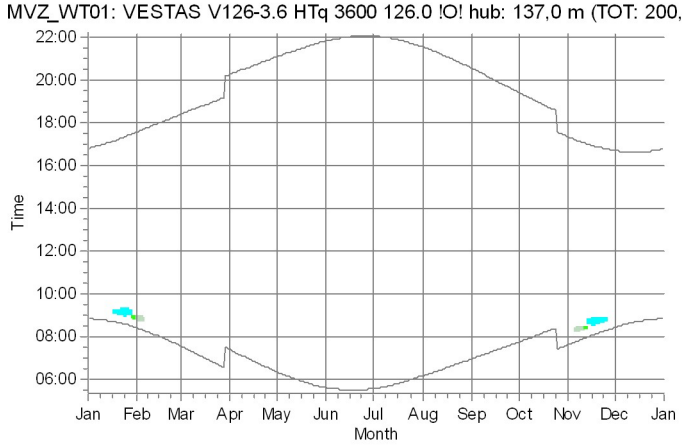
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Calculated:
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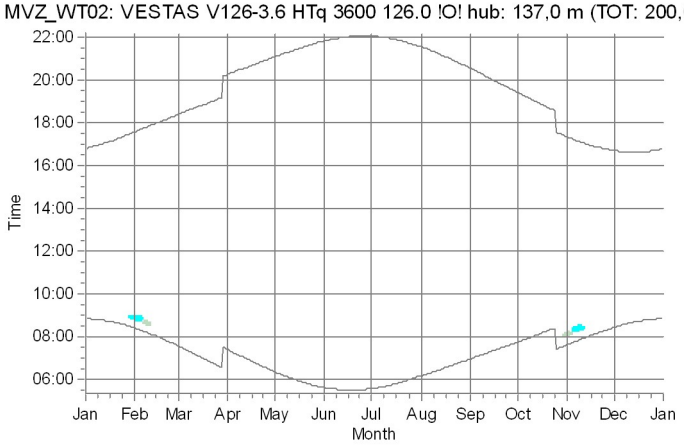
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

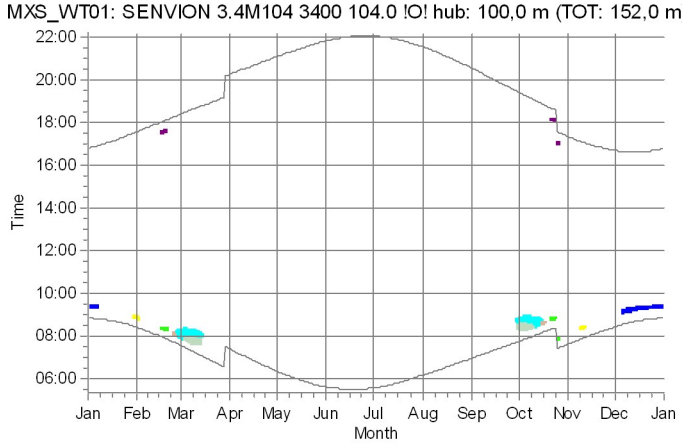
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,



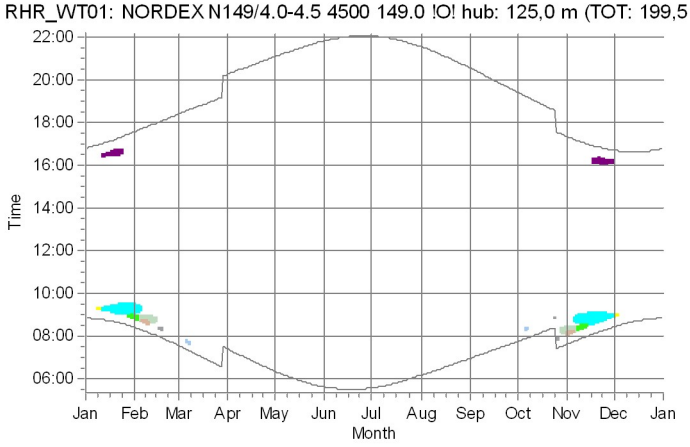
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (4



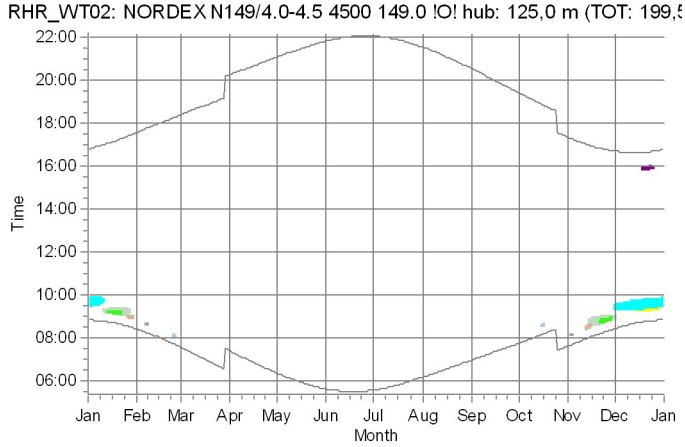
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m



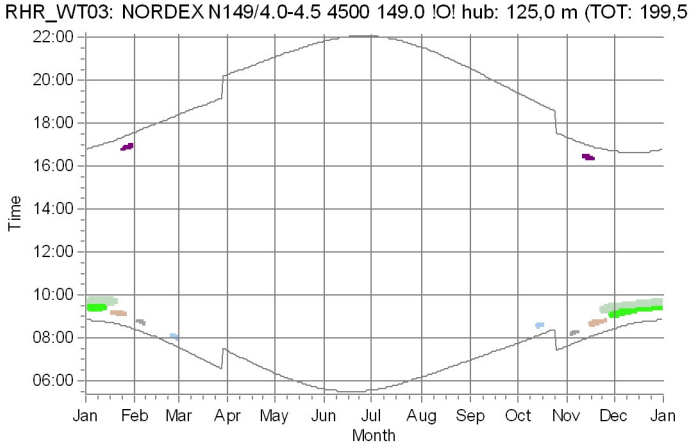
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47



RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5



RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 11: Schuitstraat 1, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

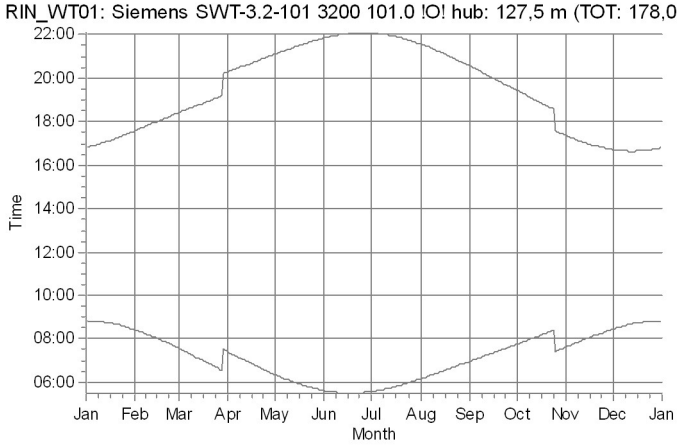
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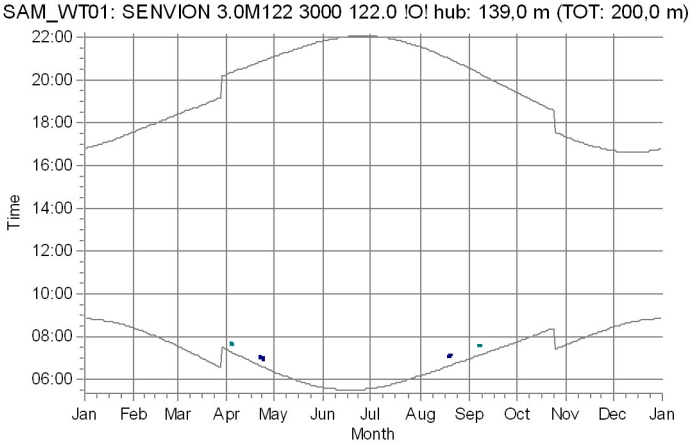
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

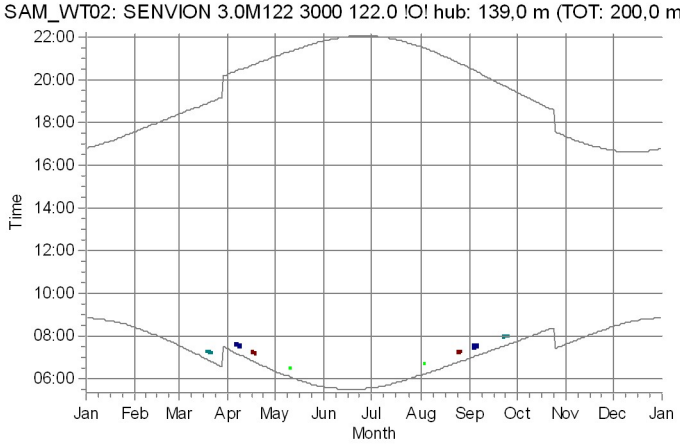
RIN_WT01: Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0



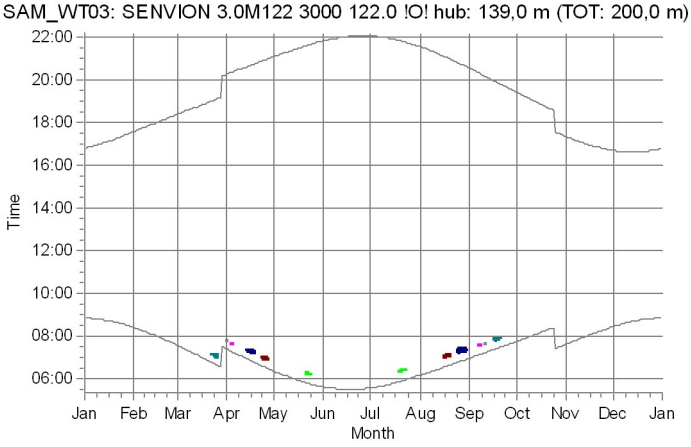
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)



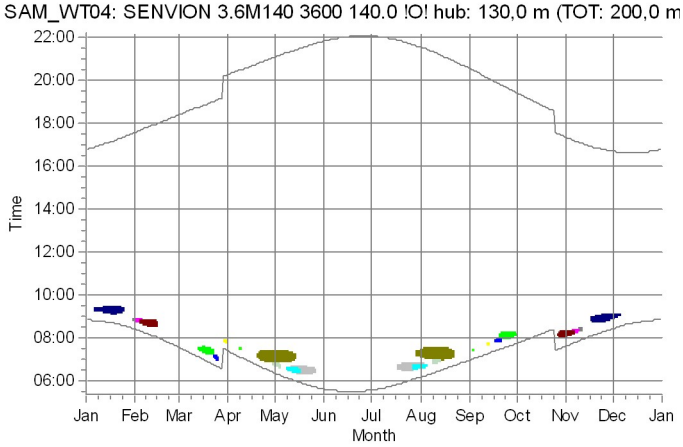
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



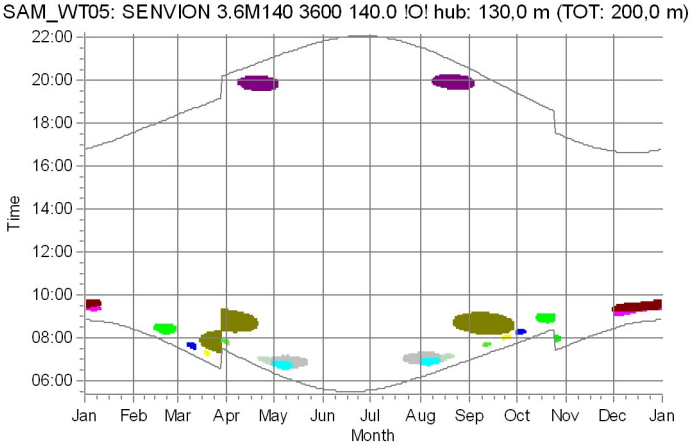
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)



SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

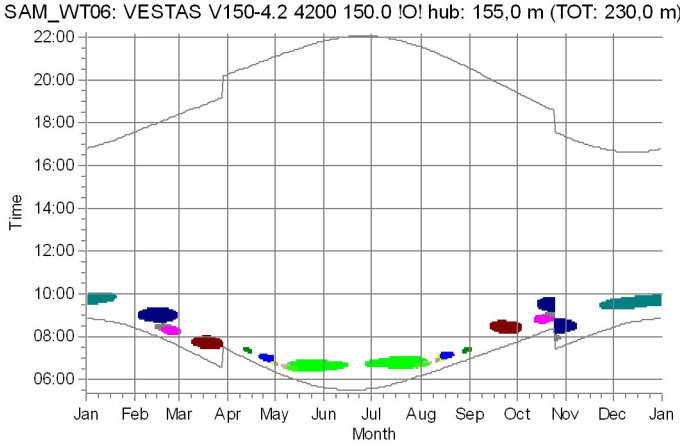
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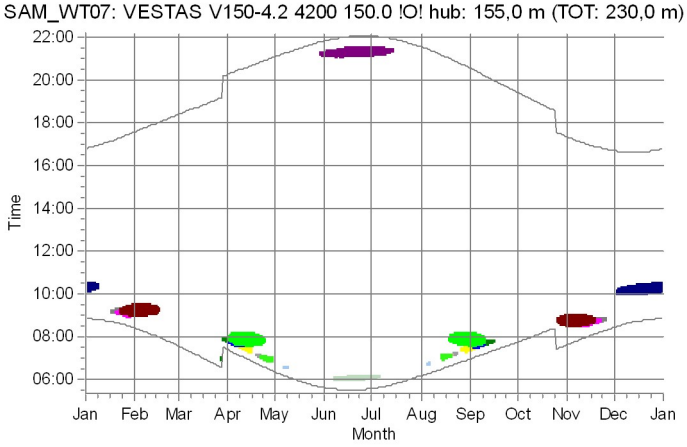
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

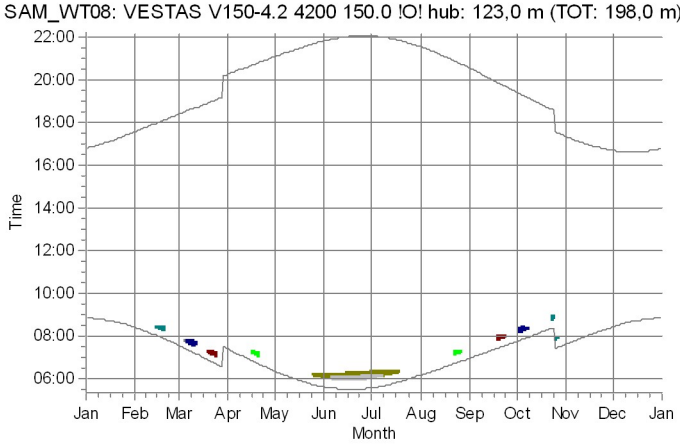
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m)



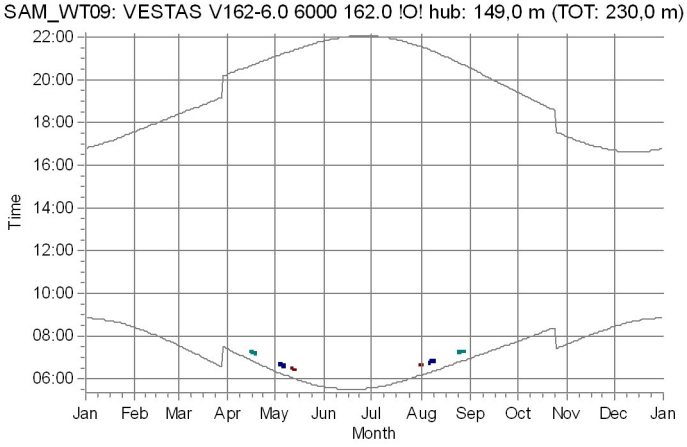
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)



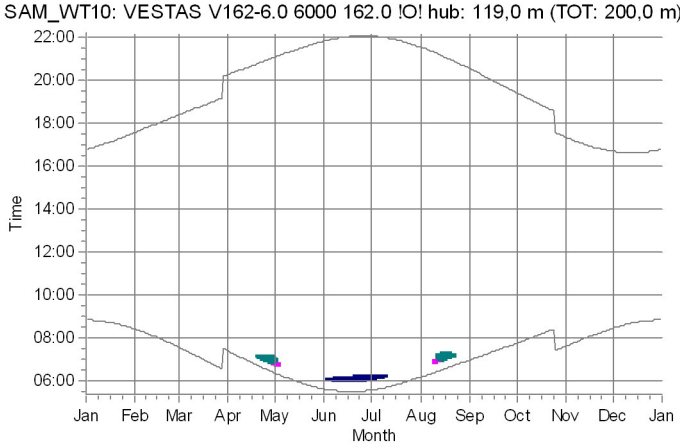
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m)



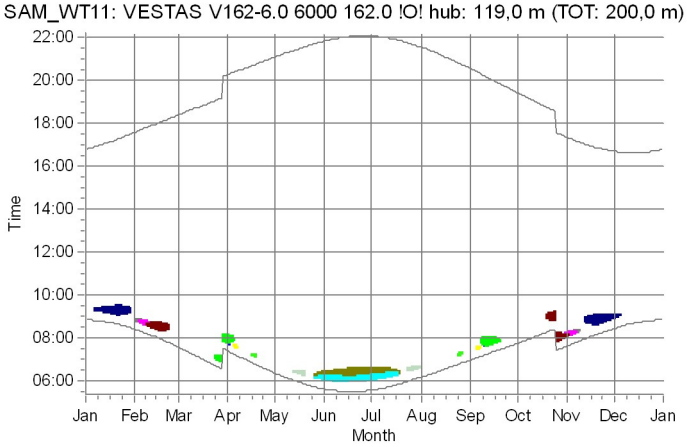
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)



SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m)



SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

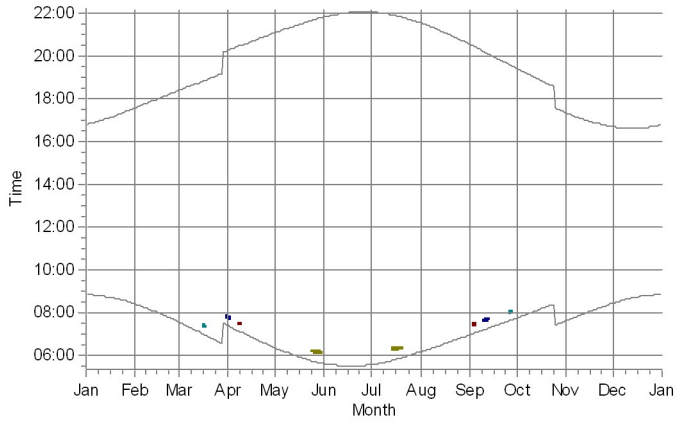
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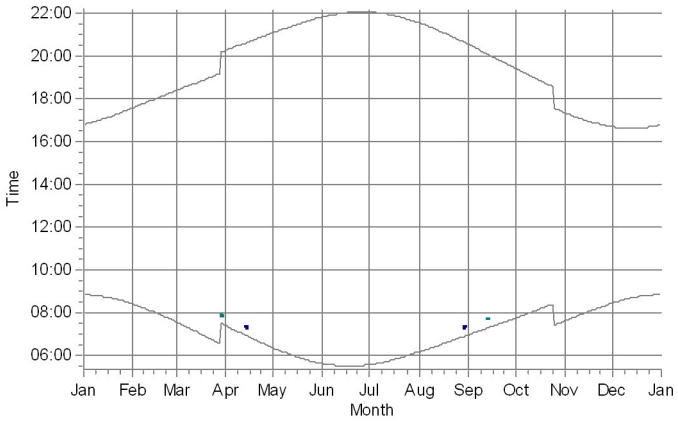
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref A

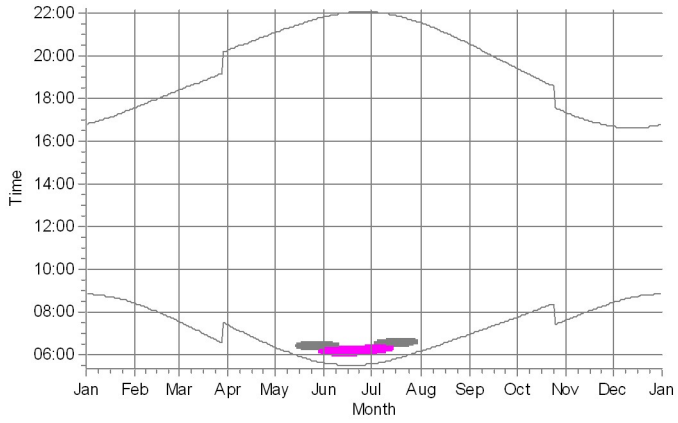
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)



Shadow receptors

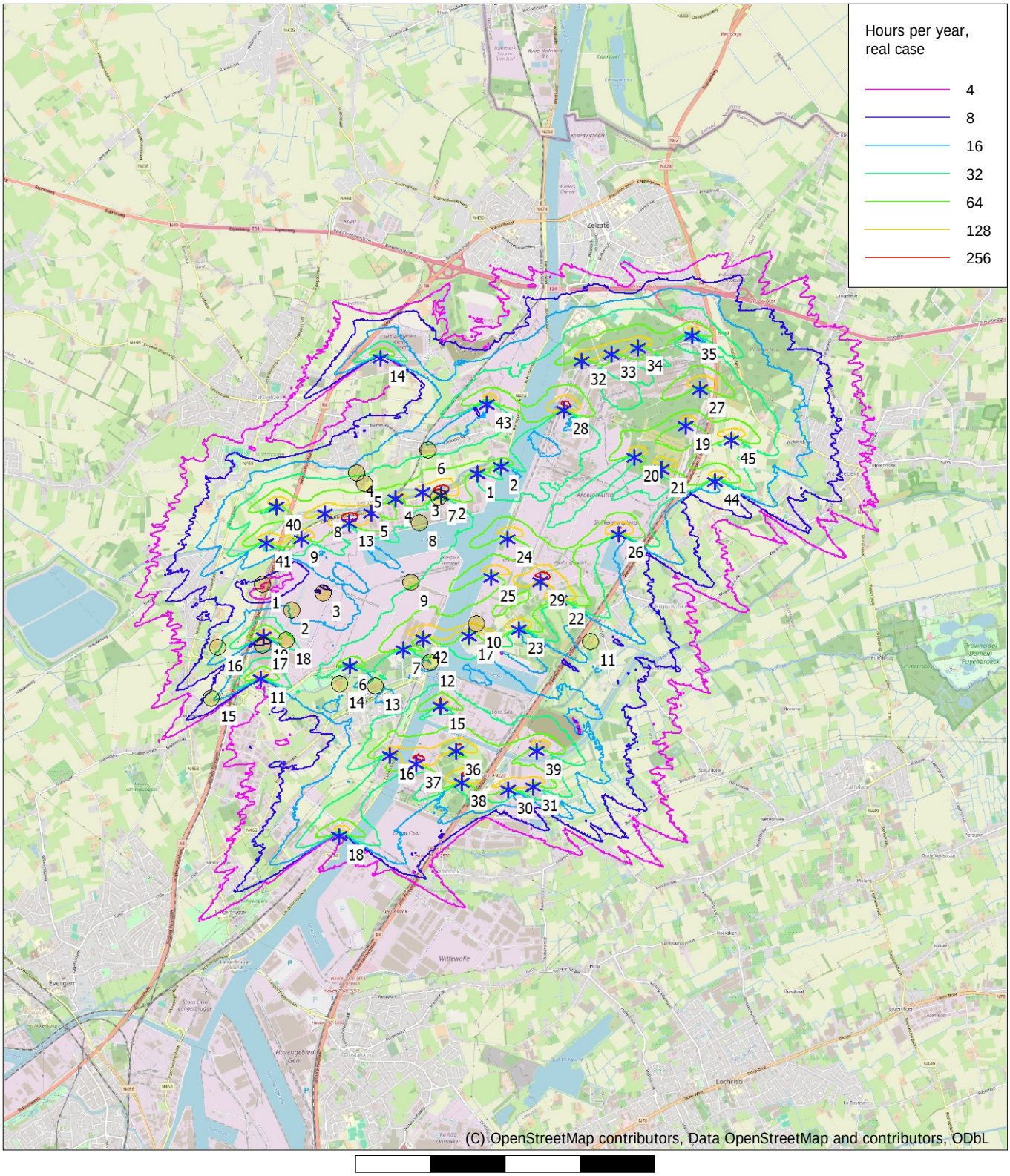
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent

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Calculated:
09/04/2026 03:07/4.1.264

SHADOW - Map

Calculation: Slagschaduw Windpark Stukwerkers - Ref A



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.600 North: 205.380

Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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09/04/2026 03:38/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

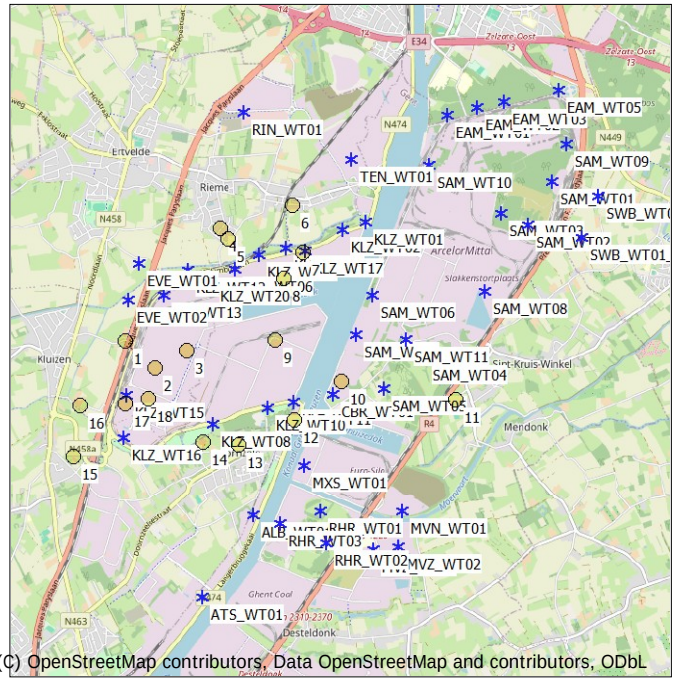
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

Scale 1:100.000

Existing WTG Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EAM_WT01	110.746	208.330	9,8	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT02	111.134	208.423	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT03	111.493	208.509	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT05	112.214	208.658	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT11	108.672	204.558	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RIN_WT01	108.045	208.389	10,0	Siemens SWT-3.2-101 ...	Yes	Siemens	SWT-3.2-101-3.200	3.200	101,0	127,5	100.000	16,0
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-

To be continued on next page...

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09/04/2026 03:38/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	Ooievaarstraat 7, 9940 Evergem	107.712	206.856	6,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Speidamstraat 58, 9940 Evergem	107.822	206.713	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Rimewegel 46, 9940 Evergem	108.680	207.151	7,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Schuitstraat 1, 9042 Gent	110.830	204.575	6,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 41, 9940 Evergem	105.749	203.857	8,6	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	17:07	160	0:15	4:04
2	Pachtgoederen 2, 9940 Evergem	76:26	201	0:54	14:20
3	Pachtgoederen 2, 9940 Evergem	34:58	174	0:40	6:49
4	Ooievaarstraat 7, 9940 Evergem	150:34	265	1:39	28:14
5	Speidamstraat 58, 9940 Evergem	261:50	295	2:07	49:04
6	Rimewegel 46, 9940 Evergem	149:10	271	2:06	25:04
7	Christoffel Columbuslaan 23, 9042 Gent	181:57	319	1:37	41:51
8	Christoffel Columbuslaan 23, 9042 Gent	106:42	258	0:57	23:11
9	Willem van Rubroeckstraat 2, 9042 Gent	100:46	278	0:39	23:17
10	Arbedkaai 3, 9042 Gent	394:28	228	3:15	114:54
11	Schuitstraat 1, 9042 Gent	50:20	190	0:35	12:27
12	Terdonkkaai 8, 9042 Gent	67:31	187	0:43	16:58
13	Doornzele Dries 107, 9940 Evergem	93:17	270	0:38	21:08
14	Abdijdreef 2, 9940 Evergem	115:22	300	0:46	25:11
15	Hageland 41, 9940 Evergem	50:48	159	0:38	14:12
16	Molendreef 5, 9940 Evergem	63:54	165	0:42	14:52
17	Amerigo Vespuccistraat 2A, 9940 Evergem	50:47	166	0:50	8:23
18	Pachtgoederen 1, 9940 Evergem	232:51	298	1:28	54:42

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:40	2:20
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	4:26	0:31
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	370:29	105:44
EAM_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)	4:47	1:28
EAM_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)	1:38	0:30
EAM_WT03	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)	0:39	0:11
EAM_WT05	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)	0:00	0:00
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	29:05	6:50
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:11	4:09
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	23:51	6:45
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	19:04	4:28
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	86:42	20:31
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	61:36	12:32
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	77:09	14:14
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	29:37	5:09
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	55:26	13:58
KLZ_WT11	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)	18:06	4:27
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	84:42	16:15
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	36:24	6:48
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	287:31	71:08
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	161:20	33:12
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	86:39	15:15
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	183:05	35:19
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:27	2:37
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	20:22	3:50
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	26:36	3:59
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	20:10	2:32
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	30:17	3:50
RIN_WT01	Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)	0:00	0:00
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:19	0:05
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:12	0:19
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	3:00	0:50
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	40:04	10:12
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	118:12	28:20
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	92:28	19:37
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	76:53	16:14
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	15:14	4:18
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:48	0:14
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	11:01	3:19
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	48:19	11:38
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:09	0:20
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:10	0:02
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	25:01	7:40

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

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SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24			07:32			07:23		07:48 (SAM_WT07)	06:20			05:36		06:04 (KLZ_WT05)
	16:48	5	09:25 (KLZ_WT08)	17:35			18:25			20:17	6	07:54 (SAM_WT07)	21:06			21:51	2	06:06 (KLZ_WT05)
2	08:50		09:20 (KLZ_WT08)	08:23		08:48 (MVN_WT01)	07:30		07:53 (CBR_WT01)	07:21			06:18			05:36		06:04 (KLZ_WT05)
	16:49	6	09:26 (KLZ_WT08)	17:37	1	08:49 (MVN_WT01)	18:27	1	07:54 (CBR_WT01)	20:19			21:08			21:52	3	06:07 (KLZ_WT05)
3	08:49		09:20 (KLZ_WT08)	08:21		08:46 (MVN_WT01)	07:28		07:51 (CBR_WT01)	07:19			06:17			05:35		06:03 (KLZ_WT05)
	16:50	7	09:27 (KLZ_WT08)	17:38	2	08:48 (MVN_WT01)	18:28	4	07:55 (CBR_WT01)	20:20			21:10			21:53	3	06:06 (KLZ_WT05)
4	08:49		09:19 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (CBR_WT01)	07:17			06:15			05:34		06:02 (KLZ_WT05)
	16:51	7	09:26 (KLZ_WT08)	17:40	1	08:46 (MVN_WT01)	18:30	6	07:55 (CBR_WT01)	20:22			21:11			21:54	4	06:06 (KLZ_WT05)
5	08:49		09:19 (KLZ_WT08)	08:18			07:24		07:47 (CBR_WT01)	07:14			06:13			05:34		06:02 (KLZ_WT05)
	16:53	8	09:27 (KLZ_WT08)	17:42			18:32	8	07:55 (CBR_WT01)	20:24			21:13			21:55	5	06:07 (KLZ_WT20)
6	08:49		09:18 (KLZ_WT08)	08:16			07:22		07:44 (CBR_WT01)	07:12			06:11			05:33		06:01 (KLZ_WT05)
	16:54	9	09:27 (KLZ_WT08)	17:44			18:33	10	07:54 (CBR_WT01)	20:25			21:14			21:56	6	06:07 (KLZ_WT20)
7	08:48		09:18 (KLZ_WT08)	08:15			07:19		07:43 (CBR_WT01)	07:10			06:09			05:32		06:01 (KLZ_WT05)
	16:55	10	09:28 (KLZ_WT08)	17:46			18:35	10	07:53 (CBR_WT01)	20:27			21:16			21:57	7	06:08 (KLZ_WT20)
8	08:48		09:17 (KLZ_WT08)	08:13			07:17		07:45 (CBR_WT01)	07:08			06:08			05:32		06:01 (KLZ_WT06)
	16:56	11	09:28 (KLZ_WT08)	17:47			18:37	6	07:51 (CBR_WT01)	20:29			21:18			21:57	9	06:10 (KLZ_WT20)
9	08:48		09:18 (KLZ_WT08)	08:11			07:15			07:06			06:06			05:31		06:00 (KLZ_WT06)
	16:58	11	09:29 (KLZ_WT08)	17:49			18:39			20:30			21:19			21:58	9	06:09 (KLZ_WT20)
10	08:47		09:18 (KLZ_WT08)	08:09			07:13		07:35 (SAM_WT05)	07:03			06:04			05:31		06:00 (KLZ_WT06)
	16:59	11	09:29 (KLZ_WT08)	17:51			18:40	1	07:36 (SAM_WT05)	20:32			21:21			21:59	10	06:10 (KLZ_WT20)
11	08:47		09:15 (RHR_WT01)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:24 (SAM_WT06)	06:03		06:28 (KLZ_WT17)	05:31		06:00 (KLZ_WT06)
	17:00	12	09:29 (KLZ_WT08)	17:53			18:42	2	07:35 (SAM_WT05)	20:34	1	07:25 (SAM_WT06)	21:22	1	06:29 (KLZ_WT17)	22:00	11	06:11 (KLZ_WT20)
12	08:46		09:15 (RHR_WT01)	08:06			07:08			06:59		07:21 (SAM_WT06)	06:01		06:26 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:02	11	09:29 (KLZ_WT08)	17:55			18:44			20:35	3	07:24 (SAM_WT06)	21:24	3	06:29 (KLZ_WT17)	22:00	12	06:11 (KLZ_WT20)
13	08:45		09:14 (RHR_WT01)	08:04			07:06			06:57		07:19 (SAM_WT06)	06:00		06:25 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:03	10	09:29 (KLZ_WT08)	17:56			18:45			20:37	5	07:24 (SAM_WT06)	21:25	4	06:29 (KLZ_WT17)	22:01	12	06:11 (KLZ_WT20)
14	08:45		09:13 (RHR_WT01)	08:02		08:26 (KLZ_WT10)	07:04			06:55		07:17 (SAM_WT06)	05:58		06:23 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:05	8	09:28 (KLZ_WT08)	17:58	2	08:28 (KLZ_WT10)	18:47			20:39	6	07:23 (SAM_WT06)	21:27	5	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
15	08:44			08:00		08:24 (KLZ_WT10)	07:02			06:53		07:15 (SAM_WT06)	05:56		06:22 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:06			18:00	3	08:27 (KLZ_WT10)	18:49			20:40	6	07:21 (SAM_WT06)	21:28	6	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
16	08:43			07:58		08:22 (KLZ_WT10)	06:59			06:50			05:55		06:21 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:08			18:02	4	08:26 (KLZ_WT10)	18:51			20:42			21:30	7	06:28 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
17	08:42			07:57			06:57			06:48			05:54		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:09			18:04			18:52			20:43			21:31	8	06:27 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
18	08:41			07:55			06:55			06:46			05:52		06:18 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:11			18:05			18:54			20:45			21:33	8	06:26 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
19	08:40			07:53			06:53			06:44			05:51		06:17 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:12			18:07			18:56			20:47			21:34	8	06:25 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
20	08:39			07:51			06:50			06:42			05:49		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:14			18:09			18:57			20:48			21:35	5	06:24 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
21	08:38			07:49			06:48			06:40			05:48			05:30		05:59 (KLZ_WT06)
	17:16			18:11			18:59			20:50			21:37			22:04	15	06:14 (KLZ_WT20)
22	08:37			07:47			06:46			06:38			05:47			05:30		06:00 (KLZ_WT06)
	17:17			18:12			19:01			20:52			21:38			22:05	14	06:14 (KLZ_WT20)
23	08:36			07:45		08:08 (KLZ_WT11)	06:44			06:36			05:46			05:30		06:00 (KLZ_WT06)
	17:19			18:14	1	08:09 (KLZ_WT11)	19:02			20:53			21:40			22:05	14	06:14 (KLZ_WT20)
24	08:35			07:43			06:41			06:34			05:44			05:31		06:00 (KLZ_WT06)
	17:21			18:16			19:04			20:55			21:41			22:05	14	06:14 (KLZ_WT20)
25	08:34			07:41			06:39			06:32			05:43			05:31		06:01 (KLZ_WT06)
	17:22			18:18			19:06			20:57			21:42			22:05	14	06:15 (KLZ_WT20)
26	08:32			07:39			06:37			06:30			05:42			05:31		06:01 (KLZ_WT06)
	17:24			18:20			19:07			20:58			21:43			22:05	14	06:15 (KLZ_WT20)
27	08:31			07:36			06:35		06:57 (SAM_WT11)	06:28			05:41			05:32		06:02 (KLZ_WT06)
	17:26			18:21			19:09	1	06:58 (SAM_WT11)	21:00			21:45			22:05	13	06:15 (KLZ_WT20)
28	08:30			07:34			06:32		06:55 (SAM_WT07)	06:26			05:40			05:32		06:02 (KLZ_WT06)
	17:28			18:23			19:10	3	06:58 (SAM_WT07)	21:01			21:46			22:05	13	06:15 (KLZ_WT20)
29	08:28						07:30		07:52 (SAM_WT07)	06:24			05:39			05:33		06:03 (KLZ_WT06)
	17:29						20:12	5	07:57 (SAM_WT07)	21:03			21:47			22:05	13	06:16 (KLZ_WT20)
30	08:27						07:28		07:50 (SAM_WT07)	06:22			05:38			05:33		06:03 (KLZ_WT06)
	17:31						20:14	6	07:56 (SAM_WT07)	21:05			21:48			22:05	12	06:15 (KLZ_WT20)
31	08:26						07:26		07:48 (SAM_WT07)				05:37		06:05 (KLZ_WT05)			
	17:33						20:15	8	07:56 (SAM_WT07)				21:49	1	06:06 (KLZ_WT05)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		126			14			71			27			56			325	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,56			0,58			0,64			0,70			0,71	
Total reduction		0,13			0,16			0,21			0,29			0,31			0,31	
Total, real		16			2			15			8			17			100	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	1	07:24 (SAM_WT06)	19:25			17:21			16:42	12	09:11 (KLZ_WT08)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59			07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31			19:23	2	08:13 (SAM_WT05)	17:19			16:42	11	09:12 (KLZ_WT08)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00			07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29			19:21	2	08:14 (SAM_WT05)	17:17			16:41	11	09:12 (KLZ_WT08)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02			07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27			19:19			17:16			16:40	11	09:13 (KLZ_WT08)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03			07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24			19:17	4	08:27 (CBR_WT01)	17:14			16:40	10	09:13 (KLZ_WT08)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05			07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22			19:14	8	08:28 (CBR_WT01)	17:12			16:40	9	09:13 (KLZ_WT08)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07			07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20			19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	8	09:14 (KLZ_WT08)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08			07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18			19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	8	09:15 (KLZ_WT08)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10			07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16			19:08	7	08:29 (CBR_WT01)	17:07			16:39	7	09:15 (KLZ_WT08)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11			07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13			19:05	5	08:29 (CBR_WT01)	17:06			16:38	6	09:15 (KLZ_WT08)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	6	07:46 (SAM_WT07)	19:03	3	08:29 (CBR_WT01)	17:04			16:38	5	09:15 (KLZ_WT08)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02			07:56			08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	8	07:47 (SAM_WT07)	19:01			17:03			16:38	4	09:15 (KLZ_WT08)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04			07:57			08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	7	07:48 (SAM_WT07)	18:59			17:01			16:38	4	09:16 (KLZ_WT08)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06			07:59			08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	5	07:47 (SAM_WT07)	18:57			17:00			16:38	3	09:16 (KLZ_WT08)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07			08:01			08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	3	07:47 (SAM_WT07)	18:55			16:59			16:38	2	09:16 (KLZ_WT08)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09			08:03			08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	1	07:46 (SAM_WT07)	18:53			16:57			16:38	2	09:17 (KLZ_WT08)
17	05:49			06:34			07:22			08:11			08:04			08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57			18:50			16:56			16:39	1	09:17 (KLZ_WT08)
18	05:50			06:35			07:24			08:13		08:38 (KLZ_WT11)	08:06			08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55			18:48	1	08:39 (KLZ_WT11)	16:55			16:39	1	09:17 (KLZ_WT08)
19	05:51			06:37			07:25			08:14			08:08			08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53			18:46			16:53			16:39	1	09:18 (KLZ_WT08)
20	05:53			06:38			07:27			08:16			08:09			08:46		
	21:50			20:59			19:50			18:44			16:52			16:39		
21	05:54			06:40			07:29			08:18			08:11			08:47		
	21:49			20:57			19:48			18:42			16:51			16:40		
22	05:55			06:41			07:30			08:19			08:12			08:47		
	21:48			20:55			19:46			18:40			16:50			16:40		
23	05:56			06:43			07:32			08:21			08:14			08:48		
	21:47			20:53			19:44			18:38			16:49			16:41		
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16			08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48			16:41	1	09:20 (KLZ_WT08)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17			08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47			16:42	1	09:21 (KLZ_WT08)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19			08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46			16:43	1	09:21 (KLZ_WT08)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20			08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45			16:43	2	09:22 (KLZ_WT08)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	6	07:23 (SAM_WT06)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	8	09:08 (KLZ_WT08)	16:44	2	09:22 (KLZ_WT08)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	6	07:24 (SAM_WT06)	19:30			17:27			16:44	10	09:09 (KLZ_WT08)	16:45	3	09:23 (KLZ_WT08)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	5	07:25 (SAM_WT06)	19:28			17:25			16:43	11	09:10 (KLZ_WT08)	16:46	3	09:23 (KLZ_WT08)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	3	07:24 (SAM_WT06)				17:23						16:47	4	09:24 (KLZ_WT08)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		128			22			31			61			33			133	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,65			0,63			0,56			0,53			0,53	
Total reduction		0,31			0,29			0,26			0,20			0,14			0,12	
Total, real		39			6			8			12			5			15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Assumptions for shadow calculations

Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (KLZ_WT08)	08:24		08:50 (MXS_WT01)	07:32			07:23			06:20		06:47 (SAM_WT06)	05:36
	16:48	11	09:31 (KLZ_WT08)	17:35	53	16:35 (KLZ_WT15)	18:25			20:17			21:06	6	06:53 (SAM_WT06)	21:51
2	08:50		09:21 (KLZ_WT08)	08:23		08:48 (MXS_WT01)	07:30			07:21			06:18			05:36
	16:49	11	09:32 (KLZ_WT08)	17:36	53	16:35 (KLZ_WT15)	18:27			20:19			21:08			21:52
3	08:49		09:21 (KLZ_WT08)	08:21		15:46 (KLZ_WT15)	07:28			07:19			06:17			05:35
	16:50	12	09:33 (KLZ_WT08)	17:38	49	16:35 (KLZ_WT15)	18:28			20:20			21:10			21:53
4	08:49		09:20 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (KLZ_WT11)	07:17			06:15			05:34
	16:51	13	09:33 (KLZ_WT08)	17:40	50	16:36 (KLZ_WT15)	18:30	2	07:51 (KLZ_WT11)	20:22			21:11			21:54
5	08:49		09:20 (KLZ_WT08)	08:18		08:43 (MVN_WT01)	07:24		07:46 (KLZ_WT11)	07:14		07:37 (SAM_WT11)	06:13			05:34
	16:53	14	09:34 (KLZ_WT08)	17:42	51	16:35 (KLZ_WT15)	18:32	4	07:50 (KLZ_WT11)	20:24	1	07:38 (SAM_WT11)	21:13			21:55
6	08:49		09:20 (KLZ_WT08)	08:16		08:41 (MVN_WT01)	07:21		07:44 (KLZ_WT11)	07:12		07:34 (SAM_WT11)	06:11			05:33
	16:54	15	09:35 (KLZ_WT08)	17:44	52	16:35 (KLZ_WT15)	18:33	5	07:49 (KLZ_WT11)	20:25	2	07:36 (SAM_WT11)	21:14			21:56
7	08:48		09:20 (KLZ_WT08)	08:15		08:39 (MVN_WT01)	07:19		07:43 (KLZ_WT11)	07:10		07:32 (SAM_WT11)	06:09			05:32
	16:55	16	09:36 (KLZ_WT08)	17:45	53	16:35 (KLZ_WT15)	18:35	5	07:48 (KLZ_WT11)	20:27	3	07:35 (SAM_WT11)	21:16			21:56
8	08:48		09:20 (KLZ_WT08)	08:13		08:41 (MVN_WT01)	07:17			07:08			06:08			05:32
	16:56	16	09:36 (KLZ_WT08)	17:47	48	16:35 (KLZ_WT15)	18:37			20:29			21:17			21:57
9	08:48		09:17 (RHR_WT01)	08:11		15:49 (KLZ_WT15)	07:15			07:06		07:28 (SAM_WT07)	06:06			05:31
	16:58	17	09:37 (KLZ_WT08)	17:49	46	16:35 (KLZ_WT15)	18:39			20:30	2	07:30 (SAM_WT07)	21:19			21:58
10	08:47		09:16 (RHR_WT01)	08:09		15:49 (KLZ_WT15)	07:13			07:03		07:26 (SAM_WT07)	06:04			05:31
	16:59	29	16:08 (KLZ_WT15)	17:51	45	16:34 (KLZ_WT15)	18:40			20:32	5	07:31 (SAM_WT07)	21:21			21:59
11	08:46		09:15 (RHR_WT01)	08:08		15:50 (KLZ_WT15)	07:11			07:01		07:24 (SAM_WT07)	06:03			05:31
	17:00	35	16:11 (KLZ_WT15)	17:53	44	16:34 (KLZ_WT15)	18:42			20:34	7	07:31 (SAM_WT07)	21:22			22:00
12	08:46		09:15 (RHR_WT01)	08:06		15:50 (KLZ_WT15)	07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01			05:30
	17:02	40	16:14 (KLZ_WT15)	17:55	43	16:33 (KLZ_WT15)	18:44	4	07:35 (CBR_WT01)	20:35	9	07:30 (SAM_WT07)	21:24			22:00
13	08:45		09:14 (RHR_WT01)	08:04		15:51 (KLZ_WT15)	07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00			05:30
	17:03	43	16:15 (KLZ_WT15)	17:56	41	16:32 (KLZ_WT15)	18:45	7	07:36 (CBR_WT01)	20:37	10	07:29 (SAM_WT07)	21:25			22:01
14	08:45		09:13 (RHR_WT01)	08:02		15:52 (KLZ_WT15)	07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58			05:30
	17:05	48	16:17 (KLZ_WT15)	17:58	39	16:31 (KLZ_WT15)	18:47	10	07:36 (CBR_WT01)	20:38	11	07:28 (SAM_WT07)	21:27			22:02
15	08:44		09:12 (RHR_WT01)	08:00		15:53 (KLZ_WT15)	07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30
	17:06	51	16:19 (KLZ_WT15)	18:00	37	16:30 (KLZ_WT15)	18:49	12	07:36 (CBR_WT01)	20:40	8	07:26 (SAM_WT07)	21:28			22:02
16	08:43		09:11 (RHR_WT01)	07:58		15:55 (KLZ_WT15)	06:59		07:22 (CBR_WT01)	06:50			05:55			05:30
	17:08	53	16:20 (KLZ_WT15)	18:02	34	16:29 (KLZ_WT15)	18:50	14	07:36 (CBR_WT01)	20:42			21:30			22:03
17	08:42		09:11 (RHR_WT01)	07:57		15:57 (KLZ_WT15)	06:57		07:22 (CBR_WT01)	06:48			05:54			05:30
	17:09	54	16:22 (KLZ_WT15)	18:04	30	16:27 (KLZ_WT15)	18:52	13	07:35 (CBR_WT01)	20:43			21:31			22:03
18	08:41		09:13 (RHR_WT01)	07:55		15:59 (KLZ_WT15)	06:55		07:17 (SAM_WT05)	06:46			05:52			05:30
	17:11	51	16:23 (KLZ_WT15)	18:05	27	16:26 (KLZ_WT15)	18:54	13	07:33 (CBR_WT01)	20:45			21:33			22:03
19	08:40		09:25 (KLZ_WT08)	07:53		16:02 (KLZ_WT15)	06:53		07:15 (SAM_WT05)	06:44			05:51			05:30
	17:12	51	16:25 (KLZ_WT15)	18:07	21	16:23 (KLZ_WT15)	18:56	13	07:32 (CBR_WT01)	20:47			21:34			22:04
20	08:39		09:26 (KLZ_WT08)	07:51		16:05 (KLZ_WT15)	06:50		07:13 (SAM_WT05)	06:42			05:49			05:30
	17:14	51	16:26 (KLZ_WT15)	18:09	15	16:20 (KLZ_WT15)	18:57	5	07:18 (SAM_WT05)	20:48			21:35			22:04
21	08:38		09:27 (KLZ_WT08)	07:49			06:48			06:40			05:48			05:30
	17:16	49	16:26 (KLZ_WT15)	18:11			18:59			20:50			21:37			22:04
22	08:37		09:29 (KLZ_WT08)	07:47		08:10 (KLZ_WT10)	06:46			06:38			05:47			05:30
	17:17	48	16:28 (KLZ_WT15)	18:12	1	08:11 (KLZ_WT10)	19:01			20:52			21:38			22:05
23	08:36		09:32 (KLZ_WT08)	07:45		08:08 (KLZ_WT10)	06:44			06:36			05:46			05:30
	17:19	44	16:29 (KLZ_WT15)	18:14	4	08:12 (KLZ_WT10)	19:02			20:53			21:40			22:05
24	08:35		15:48 (KLZ_WT15)	07:43		08:06 (KLZ_WT10)	06:41			06:34			05:44			05:31
	17:21	42	16:30 (KLZ_WT15)	18:16	6	08:12 (KLZ_WT10)	19:04			20:55			21:41			22:05
25	08:34		15:47 (KLZ_WT15)	07:41		08:04 (KLZ_WT10)	06:39			06:32		06:55 (SAM_WT06)	05:43			05:31
	17:22	43	16:30 (KLZ_WT15)	18:18	8	08:12 (KLZ_WT10)	19:05			20:57	2	06:57 (SAM_WT06)	21:42			22:05
26	08:32		15:47 (KLZ_WT15)	07:39		08:02 (KLZ_WT10)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31
	17:24	45	16:32 (KLZ_WT15)	18:20	10	08:12 (KLZ_WT10)	19:07			20:58	4	06:57 (SAM_WT06)	21:43			22:05
27	08:31		15:46 (KLZ_WT15)	07:36		08:03 (KLZ_WT10)	06:35			06:28		06:51 (SAM_WT06)	05:41			05:32
	17:26	46	16:32 (KLZ_WT15)	18:21	8	08:11 (KLZ_WT10)	19:09			21:00	5	06:56 (SAM_WT06)	21:45			22:05
28	08:30		15:46 (KLZ_WT15)	07:34		08:04 (KLZ_WT10)	06:32			06:26		06:50 (SAM_WT06)	05:40			05:32
	17:28	47	16:33 (KLZ_WT15)	18:23	4	08:08 (KLZ_WT10)	19:10			21:01	7	06:57 (SAM_WT06)	21:46			22:05
29	08:28		15:46 (KLZ_WT15)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33
	17:29	47	16:33 (KLZ_WT15)				20:12			21:03	8	06:56 (SAM_WT06)	21:47			22:05
30	08:27		08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33
	17:31	50	16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	9	06:55 (SAM_WT06)	21:48			22:04
31	08:26		08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37			
	17:33	51	16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		1143			872			109			93			6		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,65			0,70			0,59			0,65			0,67		
Total reduction		0,16			0,21			0,22			0,29			0,30		
Total, real		180			179			24			27			2		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August			September			October			November			December		
1	05:34		06:09			06:57		07:23 (SAM_WT07)	07:44		08:09 (CBR_WT01)	07:37		15:19 (KLZ_WT15)	08:26		08:57 (RHR_WT01)
	22:04		21:34			20:33	7	07:30 (SAM_WT07)	19:25	6	08:15 (CBR_WT01)	17:21	45	16:04 (KLZ_WT15)	16:42	35	15:53 (KLZ_WT15)
2	05:35		06:11			06:59		07:24 (SAM_WT07)	07:46		08:11 (CBR_WT01)	07:38		15:18 (KLZ_WT15)	08:27		08:59 (RHR_WT01)
	22:04		21:32			20:31	5	07:29 (SAM_WT07)	19:23	2	08:13 (CBR_WT01)	17:19	47	16:05 (KLZ_WT15)	16:42	30	15:52 (KLZ_WT15)
3	05:35		06:12			07:00		07:26 (SAM_WT07)	07:48			07:40		08:10 (MVN_WT01)	08:29		09:00 (RHR_WT01)
	22:04		21:30			20:29	2	07:28 (SAM_WT07)	19:21			17:17	49	16:05 (KLZ_WT15)	16:41	17	09:20 (KLZ_WT08)
4	05:36		06:14			07:02			07:49			07:42		08:09 (MVN_WT01)	08:30		09:05 (KLZ_WT08)
	22:03		21:29			20:27			19:19			17:16	53	16:05 (KLZ_WT15)	16:40	16	09:21 (KLZ_WT08)
5	05:37		06:15			07:03		07:29 (SAM_WT11)	07:51			07:44		08:11 (MVN_WT01)	08:31		09:06 (KLZ_WT08)
	22:03		21:27			20:24	3	07:32 (SAM_WT11)	19:16			17:14	52	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
6	05:38		06:17			07:05		07:30 (SAM_WT11)	07:53			07:45		08:13 (MVN_WT01)	08:33		09:06 (KLZ_WT08)
	22:02		21:25			20:22	2	07:32 (SAM_WT11)	19:14			17:12	50	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
7	05:38		06:18			07:07		07:32 (SAM_WT11)	07:54		08:19 (KLZ_WT11)	07:47		08:15 (MVN_WT01)	08:34		09:07 (KLZ_WT08)
	22:02		21:24			20:20	1	07:33 (SAM_WT11)	19:12	6	08:25 (KLZ_WT11)	17:11	49	16:05 (KLZ_WT15)	16:39	14	09:21 (KLZ_WT08)
8	05:39		06:20			07:08			07:56		08:21 (KLZ_WT11)	07:49		15:17 (KLZ_WT15)	08:35		09:08 (KLZ_WT08)
	22:01		21:22			20:18			19:10	5	08:26 (KLZ_WT11)	17:09	49	16:06 (KLZ_WT15)	16:39	13	09:21 (KLZ_WT08)
9	05:40		06:21			07:10			07:58		08:22 (KLZ_WT11)	07:50		08:19 (MXS_WT01)	08:36		09:09 (KLZ_WT08)
	22:00		21:20			20:15			19:08	3	08:25 (KLZ_WT11)	17:07	53	16:06 (KLZ_WT15)	16:39	12	09:21 (KLZ_WT08)
10	05:41		06:23			07:11			07:59		08:24 (KLZ_WT11)	07:52		08:21 (MXS_WT01)	08:37		09:10 (KLZ_WT08)
	22:00		21:18			20:13			19:05	1	08:25 (KLZ_WT11)	17:06	53	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
11	05:42		06:24			07:13			08:01			07:54		08:23 (MXS_WT01)	08:38		09:10 (KLZ_WT08)
	21:59		21:16			20:11			19:03			17:04	51	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
12	05:43		06:26		06:55 (SAM_WT06)	07:14			08:02			07:56		08:24 (MXS_WT01)	08:39		09:11 (KLZ_WT08)
	21:58		21:14	7	07:02 (SAM_WT06)	20:09			19:01			17:03	50	16:05 (KLZ_WT15)	16:38	10	09:21 (KLZ_WT08)
13	05:44		06:27		06:54 (SAM_WT06)	07:16		07:41 (SAM_WT04)	08:04			07:57		15:18 (KLZ_WT15)	08:40		09:12 (KLZ_WT08)
	21:57		21:13	9	07:03 (SAM_WT06)	20:06	1	07:42 (SAM_WT04)	18:59			17:01	47	16:05 (KLZ_WT15)	16:38	9	09:21 (KLZ_WT08)
14	05:45		06:29		06:56 (SAM_WT06)	07:18			08:06		08:36 (KLZ_WT10)	07:59		15:18 (KLZ_WT15)	08:41		09:13 (KLZ_WT08)
	21:56		21:11	8	07:04 (SAM_WT06)	20:04			18:57	6	08:42 (KLZ_WT10)	17:00	47	16:05 (KLZ_WT15)	16:38	8	09:21 (KLZ_WT08)
15	05:47		06:30		06:57 (SAM_WT06)	07:19			08:07		08:34 (KLZ_WT10)	08:01		15:19 (KLZ_WT15)	08:42		09:15 (KLZ_WT08)
	21:56		21:09	7	07:04 (SAM_WT06)	20:02			18:55	10	08:44 (KLZ_WT10)	16:59	46	16:05 (KLZ_WT15)	16:38	6	09:21 (KLZ_WT08)
16	05:48		06:32		06:59 (SAM_WT06)	07:21			08:09		08:35 (KLZ_WT10)	08:02		15:20 (KLZ_WT15)	08:43		09:16 (KLZ_WT08)
	21:55		21:07	5	07:04 (SAM_WT06)	20:00			18:53	9	08:44 (KLZ_WT10)	16:57	45	16:05 (KLZ_WT15)	16:38	5	09:21 (KLZ_WT08)
17	05:49		06:34		07:00 (SAM_WT06)	07:22			08:11		08:36 (KLZ_WT10)	08:04		15:21 (KLZ_WT15)	08:44		09:17 (RHR_WT02)
	21:54		21:05	3	07:03 (SAM_WT06)	19:57			18:50	8	08:44 (KLZ_WT10)	16:56	43	16:04 (KLZ_WT15)	16:39	4	09:21 (KLZ_WT08)
18	05:50		06:35		07:02 (SAM_WT06)	07:24			08:12		08:38 (KLZ_WT10)	08:06		15:22 (KLZ_WT15)	08:45		09:16 (RHR_WT02)
	21:52		21:03	1	07:03 (SAM_WT06)	19:55			18:48	6	08:44 (KLZ_WT10)	16:55	42	16:04 (KLZ_WT15)	16:39	5	09:21 (RHR_WT02)
19	05:51		06:37			07:25			08:14		08:40 (KLZ_WT10)	08:08		09:05 (KLZ_WT08)	08:45		09:17 (RHR_WT02)
	21:51		21:01			19:53			18:46	3	08:43 (KLZ_WT10)	16:53	45	16:03 (KLZ_WT15)	16:39	5	09:22 (RHR_WT02)
20	05:53		06:38			07:27			08:16			08:09		09:04 (KLZ_WT08)	08:46		09:18 (RHR_WT02)
	21:50		20:59			19:50			18:44			16:52	48	16:03 (KLZ_WT15)	16:39	5	09:23 (RHR_WT02)
21	05:54		06:40			07:29			08:18		16:40 (KLZ_WT15)	08:11		09:03 (KLZ_WT08)	08:47		09:18 (RHR_WT02)
	21:49		20:57			19:48			18:42	6	16:46 (KLZ_WT15)	16:51	49	16:02 (KLZ_WT15)	16:40	5	09:23 (RHR_WT02)
22	05:55		06:41			07:30			08:19		16:34 (KLZ_WT15)	08:12		09:02 (KLZ_WT08)	08:47		09:19 (RHR_WT02)
	21:48		20:55			19:46			18:40	17	16:51 (KLZ_WT15)	16:50	51	16:02 (KLZ_WT15)	16:40	5	09:24 (RHR_WT02)
23	05:56		06:43			07:32		07:56 (SAM_WT05)	08:21		16:31 (KLZ_WT15)	08:14		09:01 (KLZ_WT08)	08:48		09:19 (RHR_WT02)
	21:47		20:53			19:44	5	08:01 (SAM_WT05)	18:38	23	16:54 (KLZ_WT15)	16:49	50	16:01 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
24	05:58		06:45			07:33		07:58 (SAM_WT05)	08:23		16:29 (KLZ_WT15)	08:16		08:51 (RHR_WT01)	08:48		09:19 (RHR_WT02)
	21:45		20:50			19:41	10	08:14 (CBR_WT01)	18:36	28	16:57 (KLZ_WT15)	16:48	50	16:00 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
25	05:59		06:46			07:35		07:59 (SAM_WT05)	07:24		15:27 (KLZ_WT15)	08:17		08:49 (RHR_WT01)	08:48		09:20 (RHR_WT02)
	21:44		20:48			19:39	14	08:16 (CBR_WT01)	17:34	31	15:58 (KLZ_WT15)	16:47	54	16:00 (KLZ_WT15)	16:42	5	09:25 (RHR_WT02)
26	06:01		06:48			07:36		08:01 (SAM_WT05)	07:26		15:25 (KLZ_WT15)	08:19		08:49 (RHR_WT01)	08:49		09:20 (RHR_WT02)
	21:43		20:46			19:37	14	08:17 (CBR_WT01)	17:32	35	16:00 (KLZ_WT15)	16:46	53	15:58 (KLZ_WT15)	16:43	5	09:25 (RHR_WT02)
27	06:02		06:49		07:23 (SAM_WT07)	07:38		08:03 (CBR_WT01)	07:28		15:23 (KLZ_WT15)	08:20		08:51 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:41		20:44	2	07:25 (SAM_WT07)	19:35	15	08:18 (CBR_WT01)	17:30	37	16:00 (KLZ_WT15)	16:45	50	15:58 (KLZ_WT15)	16:43	5	09:26 (KLZ_WT08)
28	06:03		06:51		07:20 (SAM_WT07)	07:40		08:04 (CBR_WT01)	07:30		15:22 (KLZ_WT15)	08:22		08:53 (RHR_WT01)	08:49		09:21 (KLZ_WT08)
	21:40		20:42	8	07:28 (SAM_WT07)	19:32	13	08:17 (CBR_WT01)	17:28	39	16:01 (KLZ_WT15)	16:44	48	15:57 (KLZ_WT15)	16:44	5	09:26 (KLZ_WT08)
29	06:05		06:52		07:18 (SAM_WT07)	07:41		08:06 (CBR_WT01)	07:31		15:21 (KLZ_WT15)	08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38		20:40	11	07:29 (SAM_WT07)	19:30	11	08:17 (CBR_WT01)	17:27	41	16:02 (KLZ_WT15)	16:44	44	15:56 (KLZ_WT15)	16:45	7	09:27 (KLZ_WT08)
30	06:06		06:54		07:20 (SAM_WT07)	07:43		08:08 (CBR_WT01)	07:33		15:20 (KLZ_WT15)	08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37		20:38	10	07:30 (SAM_WT07)	19:28	8	08:16 (CBR_WT01)	17:25	43	16:03 (KLZ_WT15)	16:43	40	15:55 (KLZ_WT15)	16:46	8	09:28 (KLZ_WT08)
31	06:08		06:56		07:21 (SAM_WT07)				07:35		15:19 (KLZ_WT15)				08:50		09:20 (KLZ_WT08)
	21:35		20:35	8	07:29 (SAM_WT07)				17:23	45	16:04 (KLZ_WT15)				16:47	9	09:29 (KLZ_WT08)
Potential sun hours	498		451			380			333			269			248		
Total, worst case				79			111			410			1453			310	
Sun reduction				0,47			0,43			0,36			0,27			0,23	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,65			0,60			0,69			0,68			0,54	
Total reduction				0,30			0,25			0,24			0,18			0,12	
Total, real				23			28			100			259			37	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May	June
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20	05:36
	16:48	6	09:26 (MXS_WT01)	17:35	38	16:59 (KLZ_WT15)	18:25	13	08:08 (CBR_WT01)	20:17	5	07:51 (SAM_WT11)	21:06	21:51
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18	05:36
	16:49	7	09:27 (MXS_WT01)	17:36	35	16:58 (KLZ_WT15)	18:27	16	08:09 (CBR_WT01)	20:19	6	07:49 (SAM_WT11)	21:08	21:52
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16	05:35
	16:50	7	09:27 (MXS_WT01)	17:38	32	16:58 (KLZ_WT15)	18:28	18	08:09 (CBR_WT01)	20:20	6	07:47 (SAM_WT07)	21:10	21:53
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15	05:34
	16:51	7	09:26 (MXS_WT01)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	21:54
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13	05:34
	16:53	6	09:26 (MXS_WT01)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	21:55
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11	05:33
	16:54	5	09:25 (MXS_WT01)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	21:56
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09	05:32
	16:55	1	09:24 (MXS_WT01)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	15	07:47 (SAM_WT07)	21:16	21:56
8	08:48			08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08	05:32
	16:56			17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	14	07:46 (SAM_WT07)	21:17	21:57
9	08:48			08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06	05:31
	16:58			17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	12	07:45 (SAM_WT07)	21:19	21:58
10	08:47			08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04	05:31
	16:59			17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	9	07:43 (SAM_WT07)	21:21	21:59
11	08:46			08:08		08:32 (KLZ_WT11)	07:11		07:33 (SAM_WT05)	07:01		07:38 (SAM_WT07)	06:03	05:31
	17:00			17:53	1	08:33 (KLZ_WT11)	18:42	8	07:41 (SAM_WT05)	20:34	1	07:39 (SAM_WT07)	21:22	22:00
12	08:46			08:06		08:30 (KLZ_WT11)	07:08		07:31 (SAM_WT05)	06:59			06:01	05:30
	17:02			17:55	4	08:34 (KLZ_WT11)	18:44	8	07:39 (SAM_WT05)	20:35			21:24	22:00
13	08:45			08:04		08:28 (KLZ_WT11)	07:06			06:57			05:59	05:30
	17:03			17:56	6	08:34 (KLZ_WT11)	18:45			20:37			21:25	22:01
14	08:44			08:02		08:26 (KLZ_WT11)	07:04			06:55			05:58	05:30
	17:05			17:58	8	08:34 (KLZ_WT11)	18:47			20:38			21:27	22:02
15	08:44			08:00		08:24 (KLZ_WT11)	07:02			06:52			05:56	05:30
	17:06			18:00	10	08:34 (KLZ_WT11)	18:49			20:40			21:28	22:02
16	08:43			07:58		08:23 (KLZ_WT11)	06:59			06:50			05:55	05:30
	17:08			18:02	10	08:33 (KLZ_WT11)	18:50			20:42			21:30	22:03
17	08:42			07:57		08:25 (KLZ_WT11)	06:57			06:48			05:54	05:30
	17:09			18:04	6	08:31 (KLZ_WT11)	18:52			20:43			21:31	22:03
18	08:41			07:55			06:55			06:46			05:52	05:29
	17:11			18:05			18:54			20:45			21:33	22:03
19	08:40			07:53			06:53			06:44			05:51	05:30
	17:12			18:07			18:55			20:47			21:34	22:04
20	08:39		16:39 (KLZ_WT15)	07:51			06:50			06:42			05:49	05:30
	17:14	4	16:43 (KLZ_WT15)	18:09			18:57			20:48			21:35	22:04
21	08:38		09:05 (MVN_WT01)	07:49			06:48			06:40		07:03 (SAM_WT06)	05:48	05:30
	17:16	9	16:44 (KLZ_WT15)	18:11			18:59			20:50	2	07:05 (SAM_WT06)	21:37	22:04
22	08:37		09:04 (MVN_WT01)	07:47			06:46			06:38		07:01 (SAM_WT06)	05:47	05:30
	17:17	14	16:46 (KLZ_WT15)	18:12			19:00			20:52	5	07:06 (SAM_WT06)	21:38	22:05
23	08:36		09:03 (KLZ_WT10)	07:45			06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46	05:30
	17:19	17	16:48 (KLZ_WT15)	18:14			19:02	2	07:08 (SAM_WT04)	20:53	7	07:06 (SAM_WT06)	21:40	22:05
24	08:35		09:02 (KLZ_WT10)	07:43			06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44	05:30
	17:21	22	16:50 (KLZ_WT15)	18:16			19:04	3	07:07 (SAM_WT04)	20:55	9	07:06 (SAM_WT06)	21:41	22:05
25	08:34		09:00 (KLZ_WT10)	07:41			06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43	05:31
	17:22	25	16:51 (KLZ_WT15)	18:18			19:05	4	07:05 (SAM_WT04)	20:57	11	07:06 (SAM_WT06)	21:42	22:05
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42	05:31
	17:24	30	16:54 (KLZ_WT15)	18:20	2	08:04 (CBR_WT01)	19:07			20:58	12	07:05 (SAM_WT06)	21:43	22:05
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41	05:32
	17:26	34	16:55 (KLZ_WT15)	18:21	7	08:07 (CBR_WT01)	19:09			21:00	12	07:04 (SAM_WT06)	21:45	22:05
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40	05:32
	17:28	38	16:57 (KLZ_WT15)	18:23	10	08:07 (CBR_WT01)	19:10			21:01	10	07:03 (SAM_WT06)	21:46	22:05
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39	05:33
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	7	07:02 (SAM_WT06)	21:47	22:05
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22			05:38	05:33
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05			21:48	22:04
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37	
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49	
Potential sun hours	262			279			367			415			482	495
Total, worst case		350			300			166			176			
Sun reduction		0,25			0,30			0,38			0,46			
Oper. time red.		0,97			0,97			0,97			0,97			
Wind dir. red.		0,64			0,66			0,56			0,64			
Total reduction		0,16			0,19			0,21			0,29			
Total, real		54			58			34			51			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August			September			October			November			December		
1	05:34		06:09			06:57		07:37 (SAM_WT07)	07:44		08:11 (SAM_WT05)	07:37		16:11 (KLZ_WT15)	08:26		
	22:04		21:34			20:33	1	07:38 (SAM_WT07)	19:25	6	08:17 (SAM_WT05)	17:21	11	16:22 (KLZ_WT15)	16:42		
2	05:34		06:11			06:59		07:32 (SAM_WT07)	07:46		08:11 (SAM_WT05)	07:38		16:09 (KLZ_WT15)	08:27		
	22:04		21:32			20:31	9	07:41 (SAM_WT07)	19:23	8	08:19 (SAM_WT05)	17:19	15	16:24 (KLZ_WT15)	16:41		
3	05:35		06:12			07:00		07:31 (SAM_WT07)	07:48		08:12 (SAM_WT05)	07:40		16:08 (KLZ_WT15)	08:29		
	22:04		21:30			20:29	12	07:43 (SAM_WT07)	19:21	7	08:19 (SAM_WT05)	17:17	18	16:26 (KLZ_WT15)	16:41		
4	05:36		06:14			07:02		07:29 (SAM_WT07)	07:49		08:14 (SAM_WT05)	07:42		16:05 (KLZ_WT15)	08:30		
	22:03		21:29			20:27	14	07:43 (SAM_WT07)	19:19	6	08:20 (SAM_WT05)	17:16	21	16:26 (KLZ_WT15)	16:40		
5	05:37		06:15			07:03		07:29 (SAM_WT07)	07:51		08:16 (SAM_WT05)	07:44		16:05 (KLZ_WT15)	08:31		
	22:03		21:27			20:24	15	07:44 (SAM_WT07)	19:16	11	08:39 (CBR_WT01)	17:14	22	16:27 (KLZ_WT15)	16:40		
6	05:38		06:17			07:05		07:30 (SAM_WT07)	07:53		08:17 (SAM_WT05)	07:45		16:04 (KLZ_WT15)	08:33		09:06 (MXS_WT01)
	22:02		21:25			20:22	13	07:43 (SAM_WT07)	19:14	13	08:41 (CBR_WT01)	17:12	24	16:28 (KLZ_WT15)	16:39	5	09:11 (MXS_WT01)
7	05:38		06:18			07:07		07:32 (SAM_WT07)	07:54		08:28 (CBR_WT01)	07:47		16:04 (KLZ_WT15)	08:34		09:07 (MXS_WT01)
	22:02		21:24			20:20	11	07:43 (SAM_WT07)	19:12	14	08:42 (CBR_WT01)	17:11	24	16:28 (KLZ_WT15)	16:39	6	09:13 (MXS_WT01)
8	05:39		06:20			07:08		07:33 (SAM_WT07)	07:56		08:27 (CBR_WT01)	07:49		08:29 (KLZ_WT10)	08:35		09:07 (MXS_WT01)
	22:01		21:22			20:18	9	07:42 (SAM_WT07)	19:10	16	08:43 (CBR_WT01)	17:09	33	16:29 (KLZ_WT15)	16:39	7	09:14 (MXS_WT01)
9	05:40		06:21			07:10		07:35 (SAM_WT07)	07:57		08:25 (CBR_WT01)	07:50		08:28 (KLZ_WT10)	08:36		09:08 (MXS_WT01)
	22:00		21:20			20:15	7	07:42 (SAM_WT07)	19:08	18	08:43 (CBR_WT01)	17:07	36	16:29 (KLZ_WT15)	16:39	7	09:15 (MXS_WT01)
10	05:41		06:23			07:11		07:36 (SAM_WT07)	07:59		08:25 (CBR_WT01)	07:52		08:28 (KLZ_WT10)	08:37		09:09 (MXS_WT01)
	22:00		21:18			20:13	6	07:42 (SAM_WT11)	19:05	18	08:43 (CBR_WT01)	17:06	38	16:30 (KLZ_WT15)	16:38	7	09:16 (MXS_WT01)
11	05:42		06:24			07:13		07:38 (SAM_WT11)	08:01		08:26 (CBR_WT01)	07:54		08:27 (KLZ_WT10)	08:38		09:10 (MXS_WT01)
	21:59		21:16			20:11	6	07:44 (SAM_WT11)	19:03	17	08:43 (CBR_WT01)	17:04	40	16:30 (KLZ_WT15)	16:38	6	09:16 (MXS_WT01)
12	05:43		06:26			07:14		07:39 (SAM_WT11)	08:02		08:28 (CBR_WT01)	07:56		08:26 (KLZ_WT10)	08:39		09:11 (MXS_WT01)
	21:58		21:14			20:09	5	07:44 (SAM_WT11)	19:01	14	08:42 (CBR_WT01)	17:03	40	16:29 (KLZ_WT15)	16:38	6	09:17 (MXS_WT01)
13	05:44		06:27			07:16		07:41 (SAM_WT11)	08:04		08:29 (CBR_WT01)	07:57		08:27 (KLZ_WT10)	08:40		09:12 (MXS_WT01)
	21:57		21:13			20:06	3	07:44 (SAM_WT11)	18:59	12	08:41 (CBR_WT01)	17:01	39	16:29 (KLZ_WT15)	16:38	6	09:18 (MXS_WT01)
14	05:45		06:29		07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06		08:31 (CBR_WT01)	07:59		08:28 (KLZ_WT10)	08:41		09:13 (MXS_WT01)
	21:56		21:11	8	07:10 (SAM_WT06)	20:04	1	07:43 (SAM_WT11)	18:57	9	08:40 (CBR_WT01)	17:00	38	16:29 (KLZ_WT15)	16:38	5	09:18 (MXS_WT01)
15	05:46		06:30		07:00 (SAM_WT06)	07:19			08:07		08:33 (CBR_WT01)	08:01		08:30 (KLZ_WT10)	08:42		09:14 (MXS_WT01)
	21:56		21:09	11	07:11 (SAM_WT06)	20:02			18:55	5	08:38 (CBR_WT01)	16:59	34	16:28 (KLZ_WT15)	16:38	5	09:19 (MXS_WT01)
16	05:48		06:32		07:00 (SAM_WT06)	07:21			08:09			08:02		08:32 (KLZ_WT10)	08:43		09:15 (MXS_WT01)
	21:55		21:07	12	07:12 (SAM_WT06)	20:00			18:53			16:57	30	16:27 (KLZ_WT15)	16:38	5	09:20 (MXS_WT01)
17	05:49		06:34		07:00 (SAM_WT06)	07:22			08:11			08:04		08:34 (KLZ_WT10)	08:44		09:16 (MXS_WT01)
	21:54		21:05	12	07:12 (SAM_WT06)	19:57			18:50			16:56	25	16:25 (KLZ_WT15)	16:38	4	09:20 (MXS_WT01)
18	05:50		06:35		07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12			08:06		08:36 (KLZ_WT10)	08:45		09:16 (MXS_WT01)
	21:52		21:03	11	07:13 (SAM_WT06)	19:55	4	07:53 (SAM_WT04)	18:48			16:55	22	16:24 (KLZ_WT15)	16:39	4	09:20 (MXS_WT01)
19	05:51		06:37		07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14			08:07		08:37 (KLZ_WT10)	08:45		09:17 (MXS_WT01)
	21:51		21:01	9	07:12 (SAM_WT06)	19:53	4	07:54 (SAM_WT04)	18:46			16:53	17	16:22 (KLZ_WT15)	16:39	4	09:21 (MXS_WT01)
20	05:53		06:38		07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16			08:09		08:39 (MVN_WT01)	08:46		09:18 (MXS_WT01)
	21:50		20:59	7	07:12 (SAM_WT06)	19:50	3	07:55 (SAM_WT04)	18:44			16:52	14	16:21 (KLZ_WT15)	16:39	4	09:22 (MXS_WT01)
21	05:54		06:40		07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18			08:11		08:41 (MVN_WT01)	08:47		09:18 (MXS_WT01)
	21:49		20:57	5	07:11 (SAM_WT06)	19:48	1	07:54 (SAM_WT04)	18:42			16:51	9	16:20 (KLZ_WT15)	16:40	4	09:22 (MXS_WT01)
22	05:55		06:41		07:08 (SAM_WT06)	07:30			08:19			08:12		16:15 (KLZ_WT15)	08:47		09:19 (MXS_WT01)
	21:48		20:55	2	07:10 (SAM_WT06)	19:46			18:40			16:50	4	16:19 (KLZ_WT15)	16:40	4	09:23 (MXS_WT01)
23	05:56		06:43			07:32			08:21			08:14			08:48		09:19 (MXS_WT01)
	21:47		20:53			19:44			18:38			16:49			16:41	4	09:23 (MXS_WT01)
24	05:58		06:45			07:33			08:23		08:57 (KLZ_WT11)	08:16			08:48		09:19 (MXS_WT01)
	21:45		20:50			19:41			18:36	3	09:00 (KLZ_WT11)	16:48			16:41	4	09:23 (MXS_WT01)
25	05:59		06:46			07:35			07:24		07:55 (KLZ_WT11)	08:17			08:48		09:20 (MXS_WT01)
	21:44		20:48			19:39			17:34	7	08:02 (KLZ_WT11)	16:47			16:42	4	09:24 (MXS_WT01)
26	06:00		06:48			07:36			07:26		07:54 (KLZ_WT11)	08:19			08:49		09:20 (MXS_WT01)
	21:43		20:46			19:37			17:32	10	08:04 (KLZ_WT11)	16:46			16:43	4	09:24 (MXS_WT01)
27	06:02		06:49			07:38			07:28		07:54 (KLZ_WT11)	08:20			08:49		09:20 (MXS_WT01)
	21:41		20:44			19:34			17:30	9	08:03 (KLZ_WT11)	16:45			16:43	5	09:25 (MXS_WT01)
28	06:03		06:51			07:40			07:30		07:56 (KLZ_WT11)	08:22			08:49		09:20 (MXS_WT01)
	21:40		20:42			19:32			17:28	8	08:04 (KLZ_WT11)	16:44			16:44	5	09:25 (MXS_WT01)
29	06:05		06:52			07:41			07:31		07:58 (KLZ_WT11)	08:23			08:49		09:20 (MXS_WT01)
	21:38		20:40			19:30			17:27	6	08:04 (KLZ_WT11)	16:44			16:45	5	09:25 (MXS_WT01)
30	06:06		06:54			07:43			07:33		08:00 (KLZ_WT11)	08:25			08:50		09:20 (MXS_WT01)
	21:37		20:38			19:28			17:25	3	08:03 (KLZ_WT11)	16:43			16:46	5	09:25 (MXS_WT01)
31	06:08		06:56						07:35						08:50		09:20 (MXS_WT01)
	21:35		20:35						17:23						16:47	6	09:26 (MXS_WT01)
Potential sun hours	498		451			380			333			269			248		
Total, worst case				77			124			220			554			131	
Sun reduction				0,47			0,43			0,36			0,27			0,23	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,66			0,63			0,55			0,67			0,53	
Total reduction				0,30			0,27			0,20			0,18			0,12	
Total, real				23			33			43			97			15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		08:50 (SAM_WT04)	07:32		07:55 (KLZ_WT17)	07:23		07:45 (KLZ_WT01)	06:20			05:36		06:17 (TEN_WT01)
	16:48	89	15:57 (KLZ_WT13)	17:35	15	16:50 (EVE_WT02)	18:25	34	17:42 (EVE_WT01)	20:17	6	07:51 (KLZ_WT01)	21:06			21:51	16	06:33 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		07:53 (KLZ_WT17)	07:21		07:46 (KLZ_WT01)	06:18			05:36		06:19 (TEN_WT01)
	16:49	87	15:57 (KLZ_WT13)	17:36	12	16:48 (EVE_WT02)	18:26	36	17:41 (EVE_WT01)	20:19	2	07:48 (KLZ_WT01)	21:08			21:52	14	06:33 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		07:51 (KLZ_WT17)	07:19			06:16			05:35		06:19 (TEN_WT01)
	16:50	86	15:58 (KLZ_WT13)	17:38	7	09:09 (KLZ_WT05)	18:28	35	17:39 (EVE_WT01)	20:20			21:10			21:53	14	06:33 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT11)	07:26		07:49 (KLZ_WT17)	07:17			06:15			05:34		06:19 (TEN_WT01)
	16:51	84	15:57 (KLZ_WT13)	17:40	16	09:14 (KLZ_WT05)	18:30	32	17:36 (EVE_WT01)	20:22			21:11			21:54	13	06:32 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT11)	07:24		07:46 (SAM_WT08)	07:14			06:13			05:33		06:20 (TEN_WT01)
	16:52	83	15:58 (KLZ_WT13)	17:42	21	09:16 (KLZ_WT05)	18:32	26	08:12 (KLZ_WT04)	20:24			21:13			21:55	12	06:32 (TEN_WT01)
6	08:49		09:19 (SAM_WT05)	08:16		08:41 (SAM_WT11)	07:21		07:44 (SAM_WT08)	07:12			06:11			05:33		06:21 (TEN_WT01)
	16:54	80	15:57 (KLZ_WT13)	17:44	25	09:17 (KLZ_WT05)	18:33	28	08:12 (KLZ_WT04)	20:25			21:14			21:56	10	06:31 (TEN_WT01)
7	08:48		09:21 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		07:42 (KLZ_WT17)	07:10			06:09			05:32		06:22 (TEN_WT01)
	16:55	75	15:58 (KLZ_WT13)	17:45	29	09:18 (KLZ_WT05)	18:35	30	08:12 (KLZ_WT04)	20:27			21:16			21:57	9	06:31 (TEN_WT01)
8	08:48		13:18 (KLZ_WT20)	08:13		08:57 (KLZ_WT05)	07:17		07:40 (KLZ_WT17)	07:08			06:08			05:32		06:23 (TEN_WT01)
	16:56	67	15:57 (KLZ_WT13)	17:47	23	09:20 (KLZ_WT05)	18:37	32	08:12 (KLZ_WT04)	20:29			21:17			21:57	6	06:29 (TEN_WT01)
9	08:48		13:21 (KLZ_WT20)	08:11		08:56 (KLZ_WT05)	07:15		07:39 (KLZ_WT17)	07:05			06:06			05:31		06:24 (TEN_WT01)
	16:58	63	15:57 (KLZ_WT13)	17:49	25	09:21 (KLZ_WT05)	18:39	33	08:12 (KLZ_WT04)	20:30			21:19			21:58	5	06:29 (TEN_WT01)
10	08:47		13:23 (KLZ_WT20)	08:09		08:55 (KLZ_WT05)	07:13		07:38 (KLZ_WT17)	07:03			06:04			05:31		
	16:59	58	15:56 (KLZ_WT13)	17:51	26	09:21 (KLZ_WT05)	18:40	32	08:10 (KLZ_WT17)	20:32			21:21			21:59		
11	08:47		13:27 (KLZ_WT20)	08:08		08:55 (KLZ_WT05)	07:10		07:38 (KLZ_WT17)	07:01			06:03		06:28 (EAM_WT02)	05:31		
	17:00	48	15:55 (KLZ_WT13)	17:53	27	09:22 (KLZ_WT05)	18:42	32	08:10 (KLZ_WT17)	20:34			21:22	1	06:29 (EAM_WT02)	22:00		
12	08:46		15:18 (KLZ_WT12)	08:06		08:54 (KLZ_WT05)	07:08		07:39 (KLZ_WT17)	06:59			06:01			05:30		
	17:02	38	15:56 (KLZ_WT12)	17:54	28	09:22 (KLZ_WT05)	18:44	31	08:10 (KLZ_WT17)	20:35			21:24			22:00		
13	08:45		15:18 (KLZ_WT12)	08:04		08:54 (KLZ_WT05)	07:06		07:39 (KLZ_WT17)	06:57			05:59		06:25 (EAM_WT01)	05:30		
	17:03	38	15:56 (KLZ_WT12)	17:56	28	09:22 (KLZ_WT05)	18:45	30	08:09 (KLZ_WT17)	20:37			21:25	2	06:27 (EAM_WT01)	22:01		
14	08:45		15:19 (KLZ_WT12)	08:02		08:26 (SAM_WT06)	07:04		07:39 (KLZ_WT17)	06:55			05:58		06:23 (EAM_WT01)	05:30		
	17:05	37	15:56 (KLZ_WT12)	17:58	30	09:22 (KLZ_WT05)	18:47	28	08:07 (KLZ_WT17)	20:38			21:27	4	06:27 (TEN_WT01)	22:02		
15	08:44		15:20 (KLZ_WT12)	08:00		08:24 (SAM_WT06)	07:02		07:40 (KLZ_WT17)	06:52			05:56		06:22 (EAM_WT01)	05:30		
	17:06	36	15:56 (KLZ_WT12)	18:00	34	09:22 (KLZ_WT05)	18:49	26	08:06 (KLZ_WT17)	20:40			21:28	7	06:29 (TEN_WT01)	22:02		
16	08:43		15:20 (KLZ_WT12)	07:58		08:22 (SAM_WT06)	06:59		07:41 (KLZ_WT17)	06:50			05:55		06:21 (EAM_WT01)	05:29		
	17:08	38	16:35 (EVE_WT02)	18:02	43	17:34 (EVE_WT01)	18:50	23	08:04 (KLZ_WT17)	20:42			21:30	10	06:31 (TEN_WT01)	22:03		
17	08:42		09:10 (SAM_WT07)	07:57		08:20 (SAM_WT06)	06:57		07:42 (KLZ_WT17)	06:48			05:53		06:19 (TEN_WT01)	05:29		
	17:09	42	16:37 (EVE_WT02)	18:03	48	17:36 (EVE_WT01)	18:52	19	08:01 (KLZ_WT17)	20:43			21:31	12	06:31 (TEN_WT01)	22:03		
18	08:41		09:09 (SAM_WT07)	07:55		08:18 (SAM_WT06)	06:55		07:44 (KLZ_WT17)	06:46			05:52		06:18 (TEN_WT01)	05:29		
	17:11	45	16:39 (EVE_WT02)	18:05	54	17:38 (EVE_WT01)	18:54	15	07:59 (KLZ_WT17)	20:45			21:33	14	06:32 (TEN_WT01)	22:04		
19	08:40		09:08 (SAM_WT07)	07:53		08:16 (SAM_WT06)	06:53		07:49 (KLZ_WT17)	06:44			05:51		06:17 (TEN_WT01)	05:29		
	17:12	48	16:41 (EVE_WT02)	18:07	57	17:40 (EVE_WT01)	18:55	5	07:54 (KLZ_WT17)	20:47			21:34	16	06:33 (TEN_WT01)	22:04		
20	08:39		09:07 (SAM_WT07)	07:51		08:15 (SAM_WT06)	06:50			06:42			05:49		06:16 (TEN_WT01)	05:30		
	17:14	51	16:43 (EVE_WT02)	18:09	57	17:42 (EVE_WT01)	18:57			20:48			21:35	18	06:34 (TEN_WT01)	22:04		
21	08:38		09:05 (SAM_WT07)	07:49		08:16 (SAM_WT06)	06:48			06:40			05:48		06:15 (TEN_WT01)	05:30		
	17:16	54	16:44 (EVE_WT02)	18:11	56	17:44 (EVE_WT01)	18:59			20:50			21:37	18	06:33 (TEN_WT01)	22:04		
22	08:37		09:04 (SAM_WT07)	07:47		08:16 (SAM_WT06)	06:46			06:38		07:01 (SAM_WT10)	05:47		06:15 (TEN_WT01)	05:30		
	17:17	56	16:46 (EVE_WT02)	18:12	52	17:46 (EVE_WT01)	19:00			20:52	2	07:03 (SAM_WT10)	21:38	19	06:34 (TEN_WT01)	22:05		
23	08:36		09:03 (SAM_WT07)	07:45		08:18 (SAM_WT06)	06:44			06:36		06:59 (SAM_WT10)	05:46		06:15 (TEN_WT01)	05:30		
	17:19	58	16:48 (EVE_WT02)	18:14	41	17:46 (EVE_WT01)	19:02			20:53	3	07:02 (SAM_WT10)	21:40	19	06:34 (TEN_WT01)	22:05		
24	08:35		09:02 (SAM_WT07)	07:43		08:20 (SAM_WT06)	06:41		07:04 (KLZ_WT02)	06:34		06:57 (SAM_WT10)	05:44		06:15 (TEN_WT01)	05:30		
	17:21	58	16:50 (EVE_WT02)	18:16	32	17:46 (EVE_WT01)	19:04	1	07:05 (KLZ_WT02)	20:55	5	07:02 (SAM_WT10)	21:41	19	06:34 (TEN_WT01)	22:05		
25	08:34		09:01 (SAM_WT07)	07:41		17:20 (EVE_WT01)	06:39		07:01 (KLZ_WT02)	06:32		06:55 (SAM_WT10)	05:43		06:15 (TEN_WT01)	05:31		
	17:22	58	16:51 (EVE_WT02)	18:18	26	17:46 (EVE_WT01)	19:05	4	07:05 (KLZ_WT02)	20:57	6	07:01 (SAM_WT10)	21:42	19	06:34 (TEN_WT01)	22:05		
26	08:32		09:01 (SAM_WT07)	07:38		17:20 (EVE_WT01)	06:37		06:59 (KLZ_WT02)	06:30		06:53 (SAM_WT10)	05:42		06:15 (TEN_WT01)	05:31		
	17:24	55	16:53 (EVE_WT02)	18:19	26	17:46 (EVE_WT01)	19:07	6	07:05 (KLZ_WT02)	20:58	6	06:59 (SAM_WT10)	21:43	19	06:34 (TEN_WT01)	22:05		
27	08:31		09:02 (SAM_WT07)	07:36		08:00 (KLZ_WT17)	06:35		06:57 (KLZ_WT02)	06:28		06:52 (SAM_WT10)	05:41		06:15 (TEN_WT01)	05:32		
	17:26	47	16:52 (EVE_WT02)	18:21	27	17:45 (EVE_WT01)	19:09	8	07:05 (KLZ_WT02)	21:00	5	06:57 (SAM_WT10)	21:45	19	06:34 (TEN_WT01)	22:05		
28	08:30		09:03 (SAM_WT07)	07:34		07:57 (KLZ_WT17)	06:32		06:54 (KLZ_WT02)	06:26			05:40		06:15 (TEN_WT01)	05:32		
	17:28	38	16:53 (EVE_WT02)	18:23	30	17:43 (EVE_WT01)	19:10	10	07:04 (KLZ_WT02)	21:01			21:46	19	06:34 (TEN_WT01)	22:05		
29	08:28		09:03 (SAM_WT07)				07:30		07:52 (KLZ_WT01)	06:24			05:39		06:17 (TEN_WT01)	05:33		
	17:29	31	16:52 (EVE_WT02)				20:12	9	08:03 (KLZ_WT02)	21:03			21:47	17	06:34 (TEN_WT01)	22:05		
30	08:27		09:06 (SAM_WT07)				07:28		07:50 (KLZ_WT01)	06:22			05:38		06:17 (TEN_WT01)	05:33		
	17:31	25	16:52 (EVE_WT02)				20:14	5	08:00 (KLZ_WT02)	21:05			21:48	17	06:34 (TEN_WT01)	22:05		
31	08:26		08:51 (SAM_WT04)				07:25		07:48 (KLZ_WT01)				05:37		06:17 (TEN_WT01)			
	17:33	18	16:51 (EVE_WT02)				20:15	5	07:53 (KLZ_WT01)				21:49	17	06:34 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1691			895			575			35			286			99	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,59			0,57			0,65			0,70			0,70	
Total reduction		0,17			0,17			0,21			0,29			0,31			0,30	
Total, real		286			156			121			10			89			30	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09			06:57			07:44		08:18 (KLZ_WT17)	07:37		08:25 (KLZ_WT05)	08:26		13:10 (KLZ_WT20)
	22:04			21:34			20:33			19:25	30	08:48 (KLZ_WT17)	17:21	26	08:51 (KLZ_WT05)	16:42	47	15:37 (KLZ_WT13)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT17)	07:38		08:26 (KLZ_WT05)	08:27		13:07 (KLZ_WT20)
	22:04			21:32			20:31			19:23	32	08:49 (KLZ_WT17)	17:19	24	08:50 (KLZ_WT05)	16:41	55	15:39 (KLZ_WT13)
3	05:35		06:30 (TEN_WT01)	06:12			07:00			07:48		08:16 (KLZ_WT17)	07:40		08:12 (SAM_WT11)	08:29		13:04 (KLZ_WT20)
	22:04	3	06:33 (TEN_WT01)	21:30			20:29			19:21	32	08:48 (KLZ_WT17)	17:17	26	08:50 (KLZ_WT05)	16:41	63	15:40 (KLZ_WT13)
4	05:36		06:29 (TEN_WT01)	06:13			07:02			07:49		08:16 (KLZ_WT17)	07:42		08:09 (SAM_WT11)	08:30		13:03 (KLZ_WT20)
	22:03	6	06:35 (TEN_WT01)	21:29			20:27			19:19	32	08:48 (KLZ_WT17)	17:16	29	08:48 (KLZ_WT05)	16:40	67	15:42 (KLZ_WT13)
5	05:37		06:28 (TEN_WT01)	06:15			07:03			07:51		08:16 (KLZ_WT17)	07:44		08:11 (SAM_WT11)	08:31		09:06 (SAM_WT05)
	22:03	8	06:36 (TEN_WT01)	21:27			20:24			19:16	32	08:48 (KLZ_WT04)	17:14	25	08:47 (KLZ_WT05)	16:40	75	15:43 (KLZ_WT13)
6	05:37		06:27 (TEN_WT01)	06:16			07:05			07:53		08:17 (KLZ_WT17)	07:45		08:13 (SAM_WT11)	08:33		09:05 (SAM_WT05)
	22:02	10	06:37 (TEN_WT01)	21:25			20:22			19:14	31	08:48 (KLZ_WT04)	17:12	21	08:46 (KLZ_WT05)	16:39	79	15:43 (KLZ_WT13)
7	05:38		06:27 (TEN_WT01)	06:18			07:07			07:54		08:19 (SAM_WT08)	07:47		08:15 (SAM_WT11)	08:34		09:06 (SAM_WT05)
	22:02	11	06:38 (TEN_WT01)	21:24			20:20			19:12	29	08:48 (KLZ_WT04)	17:11	16	08:44 (KLZ_WT05)	16:39	83	15:45 (KLZ_WT13)
8	05:39		06:27 (TEN_WT01)	06:20			07:08			07:56		08:21 (SAM_WT08)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	12	06:39 (TEN_WT01)	21:22			20:18			19:10	27	08:48 (KLZ_WT04)	17:09	5	08:22 (SAM_WT04)	16:39	84	15:45 (KLZ_WT13)
9	05:40		06:26 (TEN_WT01)	06:21			07:10			07:57		08:22 (KLZ_WT17)	07:51		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:20			20:15			19:08	25	08:47 (KLZ_WT04)	17:07	13	16:19 (EVE_WT02)	16:38	85	15:46 (KLZ_WT13)
10	05:41		06:26 (TEN_WT01)	06:23			07:11			07:59		08:24 (KLZ_WT17)	07:52		08:21 (SAM_WT04)	08:37		09:09 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:18			20:13			19:05	33	18:12 (EVE_WT01)	17:06	15	16:21 (EVE_WT02)	16:38	87	15:46 (KLZ_WT13)
11	05:42		06:26 (TEN_WT01)	06:24			07:13		07:38 (KLZ_WT01)	08:01		08:26 (KLZ_WT17)	07:54		08:23 (SAM_WT04)	08:38		09:10 (SAM_WT05)
	21:59	15	06:41 (TEN_WT01)	21:16			20:11	6	07:44 (KLZ_WT01)	19:03	36	18:14 (EVE_WT01)	17:04	20	16:23 (EVE_WT02)	16:38	88	15:47 (KLZ_WT13)
12	05:43		06:26 (TEN_WT01)	06:26			07:14		07:39 (KLZ_WT01)	08:02		08:28 (KLZ_WT17)	07:56		08:36 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	16	06:42 (TEN_WT01)	21:14			20:09	5	07:44 (KLZ_WT01)	19:01	35	18:16 (EVE_WT01)	17:03	26	16:23 (EVE_WT02)	16:38	88	15:48 (KLZ_WT13)
13	05:44		06:25 (TEN_WT01)	06:27			07:16		07:41 (KLZ_WT01)	08:04		08:29 (KLZ_WT17)	07:57		08:35 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	17	06:42 (TEN_WT01)	21:13			20:06	3	07:44 (KLZ_WT01)	18:59	34	18:16 (EVE_WT01)	17:01	31	16:24 (EVE_WT02)	16:38	89	15:48 (KLZ_WT13)
14	05:45		06:25 (TEN_WT01)	06:29			07:17		07:42 (KLZ_WT01)	08:06		08:31 (KLZ_WT17)	07:59		08:35 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:57	18	06:43 (TEN_WT01)	21:11			20:04	8	07:53 (KLZ_WT02)	18:57	30	18:17 (EVE_WT01)	17:00	37	16:24 (EVE_WT02)	16:38	89	15:49 (KLZ_WT13)
15	05:46		06:25 (TEN_WT01)	06:30			07:19		07:45 (KLZ_WT02)	08:07		17:53 (EVE_WT01)	08:01		08:34 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56	18	06:43 (TEN_WT01)	21:09			20:02	9	07:54 (KLZ_WT02)	18:55	25	18:18 (EVE_WT01)	16:59	48	16:25 (EVE_WT02)	16:38	90	15:50 (KLZ_WT13)
16	05:48		06:25 (TEN_WT01)	06:32		06:59 (SAM_WT10)	07:21		07:45 (KLZ_WT02)	08:09		17:52 (EVE_WT01)	08:03		08:34 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55	18	06:43 (TEN_WT01)	21:07	6	07:05 (SAM_WT10)	20:00	9	07:54 (KLZ_WT02)	18:52	26	18:18 (EVE_WT01)	16:57	55	16:26 (EVE_WT02)	16:38	91	15:50 (KLZ_WT13)
17	05:49		06:25 (TEN_WT01)	06:34		07:00 (SAM_WT10)	07:22		07:47 (KLZ_WT02)	08:11		17:51 (EVE_WT01)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54	19	06:44 (TEN_WT01)	21:05	6	07:06 (SAM_WT10)	19:57	7	07:54 (KLZ_WT02)	18:50	26	18:17 (EVE_WT01)	16:56	59	16:25 (EVE_WT02)	16:38	92	15:51 (KLZ_WT13)
18	05:50		06:24 (TEN_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:49 (KLZ_WT02)	08:12		08:50 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53	20	06:44 (TEN_WT01)	21:03	5	07:07 (SAM_WT10)	19:55	5	07:54 (KLZ_WT02)	18:48	35	18:17 (EVE_WT01)	16:55	58	16:24 (EVE_WT02)	16:39	95	15:51 (KLZ_WT13)
19	05:51		06:24 (TEN_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (KLZ_WT02)	08:14		08:49 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	20	06:44 (TEN_WT01)	21:01	4	07:07 (SAM_WT10)	19:53	2	07:52 (KLZ_WT02)	18:46	45	18:17 (EVE_WT01)	16:53	58	16:22 (EVE_WT02)	16:39	97	15:52 (KLZ_WT13)
20	05:52		06:24 (TEN_WT01)	06:38		07:05 (SAM_WT10)	07:27			08:16		08:48 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	20	06:44 (TEN_WT01)	20:59	3	07:08 (SAM_WT10)	19:50			18:44	52	18:16 (EVE_WT01)	16:52	56	16:21 (EVE_WT02)	16:39	99	15:53 (KLZ_WT13)
21	05:54		06:25 (TEN_WT01)	06:40		07:06 (SAM_WT10)	07:28			08:18		08:46 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	19	06:44 (TEN_WT01)	20:57	1	07:07 (SAM_WT10)	19:48			18:42	57	18:14 (EVE_WT01)	16:51	54	16:20 (EVE_WT02)	16:40	99	15:53 (KLZ_WT13)
22	05:55		06:25 (TEN_WT01)	06:41			07:30			08:19		08:46 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	19	06:44 (TEN_WT01)	20:55			19:46			18:40	57	18:12 (EVE_WT01)	16:50	51	16:19 (EVE_WT02)	16:40	98	15:53 (KLZ_WT13)
23	05:56		06:25 (TEN_WT01)	06:43			07:32			08:21		08:47 (SAM_WT06)	08:14		08:44 (SAM_WT07)	08:48		09:19 (SAM_WT05)
	21:47	19	06:44 (TEN_WT01)	20:53			19:44			18:38	56	18:10 (EVE_WT01)	16:49	48	16:17 (EVE_WT02)	16:41	99	15:54 (KLZ_WT13)
24	05:58		06:26 (TEN_WT01)	06:44			07:33			08:23		08:49 (SAM_WT06)	08:16		08:46 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:45	17	06:43 (TEN_WT01)	20:50			19:41			18:36	53	18:08 (EVE_WT01)	16:48	45	16:16 (EVE_WT02)	16:41	97	15:55 (KLZ_WT13)
25	05:59		06:28 (TEN_WT01)	06:46			07:35		08:28 (KLZ_WT17)	07:24		07:51 (SAM_WT06)	08:17		08:48 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:44	15	06:43 (TEN_WT01)	20:48			19:39	13	08:41 (KLZ_WT17)	17:34	47	17:06 (EVE_WT01)	16:47	42	16:15 (EVE_WT02)	16:42	96	15:55 (KLZ_WT13)
26	06:00		06:29 (TEN_WT01)	06:48			07:36		08:25 (KLZ_WT17)	07:26		07:53 (SAM_WT06)	08:19		14:58 (KLZ_WT12)	08:49		09:20 (SAM_WT05)
	21:43	13	06:42 (TEN_WT01)	20:46			19:37	18	08:43 (KLZ_WT17)	17:32	40	17:04 (EVE_WT01)	16:46	39	16:14 (EVE_WT02)	16:43	93	15:55 (KLZ_WT13)
27	06:02		06:30 (TEN_WT01)	06:49			07:38		08:24 (KLZ_WT17)	07:28		07:54 (SAM_WT06)	08:20		14:59 (KLZ_WT12)	08:49		09:20 (SAM_WT05)
	21:41	11	06:41 (TEN_WT01)	20:44			19:34	22	08:46 (KLZ_WT17)	17:30	33	08:51 (KLZ_WT05)	16:45	36	15:35 (KLZ_WT12)	16:43	91	15:55 (KLZ_WT13)
28	06:03		06:32 (EAM_WT01)	06:51			07:40		08:21 (KLZ_WT17)	07:30		07:56 (SAM_WT06)	08:22		14:59 (KLZ_WT12)	08:49		09:20 (SAM_WT05)
	21:40	9	06:41 (TEN_WT01)	20:42			19:32	25	08:46 (KLZ_WT17)	17:28	29	08:51 (KLZ_WT05)	16:44	37	15:36 (KLZ_WT12)	16:44	90	15:55 (KLZ_WT13)
29	06:05		06:33 (EAM_WT01)	06:52			07:41		08:20 (KLZ_WT17)	07:31		08:24 (KLZ_WT05)	08:23		14:59 (KLZ_WT12)	08:49		09:20 (SAM_WT05)
	21:38	6	06:39 (TEN_WT01)	20:40			19:30	27	08:47 (KLZ_WT17)	17:26	28	08:52 (KLZ_WT05)	16:43	37	15:36 (KLZ_WT12)	16:45	89	15:56 (KLZ_WT13)
30	06:06		06:34 (EAM_WT01)	06:54			07:43		08:18 (KLZ_WT17)	07:33		08:24 (KLZ_WT05)	08:25		14:59 (KLZ_WT12)	08:50		09:20 (SAM_WT05)
	21:37	2	06:36 (EAM_WT01)	20:38			19:28	29	08:47 (KLZ_WT17)	17:25	28	08:52 (KLZ_WT05)	16:43	38	15:37 (KLZ_WT12)	16:46	90	15:56 (KLZ_WT13)
31	06:08		06:36 (EAM_WT01)	06:55						07:35		08:24 (KLZ_WT05)				08:50		09:20 (SAM_WT05)
	21:35	1	06:37 (EAM_WT01)	20:35						17:23	27	08:51 (KLZ_WT05)				16:47	88	15:56 (KLZ_WT13)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		390			25			188			1102			1075			2673	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,66			0,57			0,59			0,67			0,70	
Total reduction		0,30			0,30			0,24			0,21			0,17			0,15	
Total, real		119			7			46			230			187			413	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32		08:12 (SAM_WT06)	07:23			06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	120	14:59 (KLZ_WT20)	17:35	87	17:05 (EVE_WT02)	18:25	48	17:59 (EVE_WT01)	20:17			21:06	6	06:50 (SAM_WT10)	21:51	9	06:13 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		08:32 (KLZ_WT05)	07:21		07:43 (KLZ_WT02)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	121	14:59 (KLZ_WT20)	17:36	83	17:07 (EVE_WT02)	18:26	47	18:01 (EVE_WT01)	20:19	3	07:46 (KLZ_WT02)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		08:32 (KLZ_WT05)	07:19		07:41 (KLZ_WT02)	06:16		06:40 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	120	15:00 (KLZ_WT20)	17:38	77	17:09 (EVE_WT02)	18:28	50	18:03 (EVE_WT01)	20:20	6	07:47 (KLZ_WT02)	21:10	7	06:47 (SAM_WT10)	21:53	12	06:15 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:32 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:40 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	122	15:00 (KLZ_WT20)	17:40	56	17:11 (EVE_WT02)	18:30	54	18:05 (EVE_WT01)	20:22	8	07:47 (KLZ_WT02)	21:11	6	06:46 (SAM_WT10)	21:54	13	06:15 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:31 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	121	15:00 (KLZ_WT20)	17:42	59	17:13 (EVE_WT02)	18:32	55	18:06 (EVE_WT01)	20:24	10	07:47 (KLZ_WT02)	21:13			21:55	14	06:16 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:31 (KLZ_WT05)	07:12		07:34 (KLZ_WT01)	06:11			05:33		06:01 (TEN_WT01)
	16:54	122	16:20 (KLZ_WT13)	17:44	62	17:15 (EVE_WT02)	18:33	58	18:08 (EVE_WT01)	20:25	12	07:46 (KLZ_WT02)	21:14			21:56	15	06:16 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		08:32 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	124	16:22 (KLZ_WT13)	17:45	64	17:16 (EVE_WT02)	18:35	58	18:10 (EVE_WT01)	20:27	13	07:45 (KLZ_WT02)	21:16			21:57	16	06:17 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT11)	07:17		07:40 (SAM_WT08)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	127	16:23 (KLZ_WT13)	17:47	66	17:18 (EVE_WT02)	18:37	60	18:10 (EVE_WT01)	20:29	12	07:43 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:19 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	126	16:25 (KLZ_WT13)	17:49	66	17:18 (EVE_WT02)	18:39	62	18:10 (EVE_WT01)	20:30	7	07:35 (KLZ_WT01)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:20 (SAM_WT05)	08:09		08:35 (SAM_WT11)	07:13		07:35 (KLZ_WT17)	07:03		07:30 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	125	16:26 (KLZ_WT13)	17:51	63	17:17 (EVE_WT02)	18:40	65	18:09 (EVE_WT01)	20:32	3	07:33 (KLZ_WT01)	21:21			21:59	18	06:18 (TEN_WT01)
11	08:46		09:22 (SAM_WT05)	08:08		08:37 (SAM_WT11)	07:10		07:33 (KLZ_WT17)	07:01			06:03			05:31		06:00 (TEN_WT01)
	17:00	119	16:27 (KLZ_WT13)	17:53	57	17:16 (EVE_WT02)	18:42	66	18:08 (EVE_WT01)	20:34			21:22			22:00	19	06:19 (TEN_WT01)
12	08:46		11:44 (KLZ_WT06)	08:06		16:21 (KLZ_WT12)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	119	16:29 (KLZ_WT13)	17:54	49	17:15 (EVE_WT02)	18:44	63	18:07 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		11:45 (KLZ_WT06)	08:04		16:21 (KLZ_WT12)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	119	16:31 (KLZ_WT13)	17:56	45	17:13 (EVE_WT02)	18:45	60	18:06 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		11:46 (KLZ_WT06)	08:02		16:22 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:00 (TEN_WT01)
	17:05	118	16:32 (KLZ_WT13)	17:58	35	17:09 (EVE_WT02)	18:47	54	18:04 (EVE_WT01)	20:38			21:27			22:02	19	06:19 (TEN_WT01)
15	08:44		11:47 (KLZ_WT06)	08:00		16:23 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:00 (TEN_WT01)
	17:06	118	16:34 (KLZ_WT13)	18:00	31	16:54 (KLZ_WT12)	18:49	41	18:02 (EVE_WT01)	20:40			21:28			22:02	20	06:20 (TEN_WT01)
16	08:43		11:48 (KLZ_WT06)	07:58		16:24 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	116	16:35 (KLZ_WT13)	18:02	29	16:53 (KLZ_WT12)	18:50	31	07:53 (KLZ_WT17)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		11:49 (KLZ_WT06)	07:57		16:26 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53		06:19 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:09	116	16:37 (KLZ_WT13)	18:03	26	16:52 (KLZ_WT12)	18:52	34	07:53 (KLZ_WT17)	20:43			21:31	1	06:20 (EAM_WT02)	22:03	19	06:20 (TEN_WT01)
18	08:41		11:51 (KLZ_WT06)	07:55		08:18 (SAM_WT06)	06:55		07:17 (KLZ_WT17)	06:46			05:52		06:18 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:11	114	16:39 (KLZ_WT13)	18:05	24	16:50 (KLZ_WT12)	18:54	36	07:53 (KLZ_WT17)	20:45			21:33	1	06:19 (EAM_WT02)	22:04	19	06:20 (TEN_WT01)
19	08:40		11:53 (KLZ_WT06)	07:53		08:16 (SAM_WT06)	06:53		07:17 (KLZ_WT17)	06:44			05:51			05:29		06:01 (TEN_WT01)
	17:12	110	16:39 (KLZ_WT13)	18:07	26	16:48 (KLZ_WT12)	18:55	36	07:53 (KLZ_WT17)	20:47			21:34			22:04	20	06:21 (TEN_WT01)
20	08:39		09:07 (SAM_WT07)	07:51		08:14 (SAM_WT06)	06:50		07:16 (KLZ_WT17)	06:42			05:49		06:16 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:14	108	16:40 (KLZ_WT13)	18:09	35	16:45 (KLZ_WT12)	18:57	37	07:53 (KLZ_WT17)	20:48			21:35	1	06:17 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
21	08:38		09:05 (SAM_WT07)	07:49		08:12 (SAM_WT06)	06:48		07:16 (KLZ_WT17)	06:40			05:48		06:14 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:16	104	16:40 (KLZ_WT13)	18:11	32	09:02 (KLZ_WT05)	18:59	36	07:52 (KLZ_WT17)	20:50			21:37	2	06:16 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
22	08:37		09:04 (SAM_WT07)	07:47		08:10 (SAM_WT06)	06:46		07:16 (KLZ_WT17)	06:38			05:47		06:13 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:17	91	16:40 (KLZ_WT13)	18:12	39	09:04 (KLZ_WT05)	19:00	36	07:52 (KLZ_WT17)	20:52			21:38	3	06:16 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
23	08:36		09:03 (SAM_WT07)	07:45		08:08 (SAM_WT06)	06:44		07:16 (KLZ_WT17)	06:36			05:46		06:12 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:19	92	16:42 (KLZ_WT12)	18:14	44	09:05 (KLZ_WT05)	19:02	35	07:51 (KLZ_WT17)	20:53			21:40	3	06:15 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:07 (SAM_WT06)	06:41		07:16 (KLZ_WT17)	06:34			05:44		06:11 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:21	95	16:45 (KLZ_WT12)	18:16	47	09:06 (KLZ_WT05)	19:04	35	07:51 (KLZ_WT17)	20:55			21:41	3	06:14 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:08 (SAM_WT06)	06:39		07:16 (KLZ_WT17)	06:32			05:43		06:10 (EAM_WT01)	05:31		06:03 (TEN_WT01)
	17:22	97	16:46 (KLZ_WT12)	18:18	48	09:07 (KLZ_WT05)	19:05	33	07:49 (KLZ_WT17)	20:57			21:42	3	06:13 (EAM_WT01)	22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:08 (SAM_WT06)	06:37		07:17 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	96	16:48 (KLZ_WT12)	18:19	49	09:08 (KLZ_WT05)	19:07	31	07:48 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:09 (SAM_WT06)	06:35		07:18 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	96	16:49 (KLZ_WT12)	18:21	49	09:09 (KLZ_WT05)	19:09	29	07:47 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:57 (SAM_WT07)	07:34		08:10 (SAM_WT06)	06:32		07:18 (KLZ_WT17)	06:26		06:49 (SAM_WT10)	05:40			05:32		06:03 (TEN_WT01)
	17:28	96	16:51 (KLZ_WT12)	18:23	46	09:08 (KLZ_WT05)	19:10	26	07:44 (KLZ_WT17)	21:01	1	06:50 (SAM_WT10)	21:46			22:05	20	06:23 (TEN_WT01)
29	08:28		08:57 (SAM_WT07)				07:30		08:20 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	93	16:52 (KLZ_WT12)				20:12	22	08:42 (KLZ_WT17)	21:03	3	06:51 (SAM_WT10)	21:47	1	06:08 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:58 (SAM_WT07)				07:28		08:22 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	90	16:53 (KLZ_WT12)				20:14	18	08:40 (KLZ_WT17)	21:05	4	06:50 (SAM_WT10)	21:48	5	06:11 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:58 (SAM_WT07)				07:25		08:25 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	89	17:03 (EVE_WT02)				20:15	11	08:36 (KLZ_WT17)				21:49	7	06:12 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		3424			1394			1327			82			55			531	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,66			0,59			0,64			0,69			0,71	
Total reduction		0,17			0,19			0,22			0,29			0,31			0,31	
Total, real		568			269			289			24			17			162	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57			07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		11:24 (KLZ_WT06)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33			19:25	63	18:46 (EVE_WT01)	17:21	65	16:47 (EVE_WT02)	16:42	120	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:28 (KLZ_WT01)	07:46		08:11 (KLZ_WT17)	07:38		08:06 (SAM_WT11)	08:27		09:03 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	3	07:31 (KLZ_WT01)	19:23	64	18:47 (EVE_WT01)	17:19	67	16:48 (EVE_WT02)	16:41	124	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (KLZ_WT17)	07:40		08:08 (SAM_WT11)	08:29		09:02 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	7	07:33 (KLZ_WT01)	19:21	65	18:46 (EVE_WT01)	17:17	66	16:48 (EVE_WT02)	16:41	126	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT11)	08:30		09:02 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:29			20:27	12	07:40 (KLZ_WT02)	19:19	64	18:47 (EVE_WT01)	17:16	64	16:46 (EVE_WT02)	16:40	127	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:16 (SAM_WT08)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	13	07:42 (KLZ_WT02)	19:16	60	18:47 (EVE_WT01)	17:14	61	16:44 (EVE_WT02)	16:40	125	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:16			07:05		07:30 (KLZ_WT01)	07:53		08:17 (SAM_WT08)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	12	07:42 (KLZ_WT02)	19:14	60	18:46 (EVE_WT01)	17:12	58	16:42 (EVE_WT02)	16:39	122	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		09:07 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	10	07:42 (KLZ_WT02)	19:12	59	18:45 (EVE_WT01)	17:11	59	16:41 (EVE_WT02)	16:39	120	14:47 (KLZ_WT20)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		09:07 (KLZ_WT05)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	8	07:41 (KLZ_WT02)	19:10	57	18:43 (EVE_WT01)	17:09	76	16:39 (EVE_WT02)	16:39	121	14:48 (KLZ_WT20)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10		07:35 (KLZ_WT02)	07:57		09:06 (KLZ_WT05)	07:50		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	7	06:56 (SAM_WT10)	20:15	6	07:41 (KLZ_WT02)	19:08	55	18:40 (EVE_WT01)	17:07	83	16:38 (EVE_WT02)	16:38	120	14:48 (KLZ_WT20)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		07:36 (KLZ_WT02)	07:59		09:06 (KLZ_WT05)	07:52		08:31 (SAM_WT07)	08:37		09:09 (SAM_WT05)
	22:00	11	06:22 (TEN_WT01)	21:18	7	06:57 (SAM_WT10)	20:13	3	07:39 (KLZ_WT02)	19:05	52	18:38 (EVE_WT01)	17:06	87	16:36 (EVE_WT02)	16:38	121	14:48 (KLZ_WT20)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13			08:01		09:06 (KLZ_WT05)	07:54		08:30 (SAM_WT07)	08:38		09:10 (SAM_WT05)
	21:59	10	06:22 (TEN_WT01)	21:16	6	06:57 (SAM_WT10)	20:11			19:03	49	18:36 (EVE_WT01)	17:04	90	16:35 (EVE_WT02)	16:38	120	14:49 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:17 (KLZ_WT17)	08:02		09:06 (KLZ_WT05)	07:56		08:29 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	8	06:21 (TEN_WT01)	21:14	5	06:58 (SAM_WT10)	20:09	10	08:27 (KLZ_WT17)	19:01	45	18:34 (EVE_WT01)	17:03	90	16:24 (KLZ_WT12)	16:38	121	14:49 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:14 (KLZ_WT17)	08:04		08:44 (SAM_WT06)	07:57		08:29 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	6	06:20 (TEN_WT01)	21:13	4	06:58 (SAM_WT10)	20:06	17	08:31 (KLZ_WT17)	18:59	47	18:31 (EVE_WT01)	17:01	93	16:24 (KLZ_WT12)	16:38	121	14:50 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:10 (KLZ_WT17)	08:06		08:42 (SAM_WT06)	07:59		08:29 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:56	4	06:19 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	22	08:32 (KLZ_WT17)	18:57	47	09:41 (KLZ_WT05)	17:00	96	16:23 (KLZ_WT12)	16:38	120	14:50 (KLZ_WT20)
15	05:46			06:30		06:57 (SAM_WT10)	07:19		08:09 (KLZ_WT17)	08:07		08:41 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56			21:09	1	06:58 (SAM_WT10)	20:02	25	08:34 (KLZ_WT17)	18:55	49	09:41 (KLZ_WT05)	16:59	96	16:22 (KLZ_WT12)	16:38	120	14:51 (KLZ_WT20)
16	05:48			06:32			07:21		08:07 (KLZ_WT17)	08:09		08:39 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55			21:07			20:00	28	08:35 (KLZ_WT17)	18:52	50	09:39 (KLZ_WT05)	16:57	96	16:21 (KLZ_WT12)	16:38	120	14:52 (KLZ_WT20)
17	05:49			06:33			07:22		08:05 (KLZ_WT17)	08:11		08:39 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54			21:05			19:57	31	08:36 (KLZ_WT17)	18:50	48	09:38 (KLZ_WT05)	16:56	97	16:20 (KLZ_WT12)	16:38	118	14:52 (KLZ_WT20)
18	05:50			06:35			07:24		08:04 (KLZ_WT17)	08:12		08:39 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53			21:03			19:55	32	08:36 (KLZ_WT17)	18:48	45	09:37 (KLZ_WT05)	16:55	95	16:19 (KLZ_WT12)	16:39	120	14:52 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37			07:25		08:03 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	3	06:23 (EAM_WT01)	21:01			19:53	34	08:37 (KLZ_WT17)	18:46	42	09:36 (KLZ_WT05)	16:53	92	16:16 (KLZ_WT12)	16:39	120	14:53 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38			07:27		08:03 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	3	06:24 (EAM_WT01)	20:59			19:50	35	08:38 (KLZ_WT17)	18:44	36	09:34 (KLZ_WT05)	16:52	91	16:15 (KLZ_WT13)	16:39	120	14:54 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40			07:28		08:01 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	3	06:26 (EAM_WT01)	20:57			19:48	36	08:37 (KLZ_WT17)	18:42	29	09:31 (KLZ_WT05)	16:51	104	16:16 (KLZ_WT13)	16:40	120	14:54 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41			07:30		08:01 (KLZ_WT17)	08:19		08:45 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	2	06:26 (EAM_WT01)	20:55			19:46	37	08:38 (KLZ_WT17)	18:40	32	17:16 (KLZ_WT12)	16:50	108	16:16 (KLZ_WT13)	16:40	120	14:55 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43			07:32		08:00 (KLZ_WT17)	08:21		08:47 (SAM_WT06)	08:14		11:29 (KLZ_WT06)	08:48		09:19 (SAM_WT05)
	21:47	1	06:26 (EAM_WT01)	20:53			19:44	37	08:37 (KLZ_WT17)	18:38	24	17:19 (KLZ_WT12)	16:49	111	16:16 (KLZ_WT13)	16:41	120	14:55 (KLZ_WT20)
24	05:58			06:44			07:33		08:00 (KLZ_WT17)	08:23		16:57 (KLZ_WT12)	08:16		11:28 (KLZ_WT06)	08:48		09:19 (SAM_WT05)
	21:45			20:50			19:41	37	08:37 (KLZ_WT17)	18:36	24	17:21 (KLZ_WT12)	16:48	114	16:16 (KLZ_WT13)	16:41	120	14:55 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46			07:35		07:59 (KLZ_WT17)	07:24		15:56 (KLZ_WT12)	08:17		11:27 (KLZ_WT06)	08:48		09:20 (SAM_WT05)
	21:44	1	06:29 (EAM_WT02)	20:48			19:39	37	08:36 (KLZ_WT17)	17:34	26	16:22 (KLZ_WT12)	16:47	115	16:15 (KLZ_WT13)	16:42	120	14:56 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48			07:36		08:01 (KLZ_WT17)	07:26		15:54 (KLZ_WT12)	08:19		11:26 (KLZ_WT06)	08:49		09:20 (SAM_WT05)
	21:43	1	06:30 (EAM_WT02)	20:46			19:37	35	08:36 (KLZ_WT17)	17:32	30	16:24 (KLZ_WT12)	16:46	117	16:14 (KLZ_WT13)	16:43	119	14:56 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:52 (KLZ_WT12)	08:20		11:26 (KLZ_WT06)	08:49		09:20 (SAM_WT05)
	21:41			20:44			19:34	32	08:35 (KLZ_WT17)	17:30	32	16:24 (KLZ_WT12)	16:45	118	16:13 (KLZ_WT13)	16:43	119	14:56 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:51 (KLZ_WT12)	08:22		11:26 (KLZ_WT06)	08:49		09:20 (SAM_WT05)
	21:40			20:42			19:32	39	18:41 (EVE_WT01)	17:28	39	16:40 (EVE_WT02)	16:44	118	16:12 (KLZ_WT13)	16:44	121	14:57 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		15:51 (KLZ_WT12)	08:23		11:25 (KLZ_WT06)	08:49		09:20 (SAM_WT05)
	21:38			20:40			19:30	50	18:44 (EVE_WT01)	17:26	45	16:43 (EVE_WT02)	16:43	119	16:11 (KLZ_WT13)	16:45	119	14:57 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		15:50 (KLZ_WT12)	08:25		11:25 (KLZ_WT06)	08:50		09:20 (SAM_WT05)
	21:37			20:38			19:28	59	18:45 (EVE_WT01)	17:25	51	16:45 (EVE_WT02)	16:43	119	16:10 (KLZ_WT13)	16:46	121	14:58 (KLZ_WT20)
31	06:08			06:55						07:35		08:06 (SAM_WT11)				08:50		09:20 (SAM_WT05)
	21:35			20:35						17:23	59	16:46 (EVE_WT02)				16:47	120	14:58 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		200			32			707			1448			2765			3745	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,67			0,59			0,61			0,69			0,68	
Total reduction		0,31			0,31			0,25			0,22			0,18			0,15	
Total, real		62			10			177			312			499			557	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (SAM_WT06)	08:24		17:01 (KLZ_WT12)	07:32		08:26 (KLZ_WT02)	07:23			06:20		06:52 (SAM_WT10)	05:36		06:07 (EAM_WT01)
	16:48	122	16:14 (KLZ_WT20)	17:35	4	17:05 (KLZ_WT12)	18:25	18	08:44 (KLZ_WT02)	20:17			21:06	12	07:04 (SAM_WT10)	21:51	10	06:17 (EAM_WT01)
2	08:50		09:33 (SAM_WT06)	08:23		17:00 (KLZ_WT12)	07:30		08:28 (KLZ_WT02)	07:21			06:18		06:54 (SAM_WT10)	05:35		06:07 (EAM_WT01)
	16:49	121	16:15 (KLZ_WT20)	17:36	7	17:07 (KLZ_WT12)	18:26	14	08:42 (KLZ_WT02)	20:19			21:08	7	07:01 (SAM_WT10)	21:52	10	06:17 (EAM_WT01)
3	08:49		09:33 (SAM_WT06)	08:21		17:00 (KLZ_WT12)	07:28		08:30 (KLZ_WT02)	07:19			06:16			05:35		06:09 (EAM_WT01)
	16:50	120	16:17 (KLZ_WT20)	17:38	9	17:09 (KLZ_WT12)	18:28	10	08:40 (KLZ_WT02)	20:20			21:09			21:53	8	06:17 (EAM_WT01)
4	08:49		09:33 (SAM_WT06)	08:19		17:01 (KLZ_WT12)	07:26			07:16		07:39 (SAM_WT01)	06:15			05:34		06:09 (EAM_WT01)
	16:51	119	16:17 (KLZ_WT20)	17:40	10	17:11 (EVE_WT02)	18:30			20:22	2	07:41 (SAM_WT01)	21:11			21:54	7	06:16 (EAM_WT01)
5	08:49		09:34 (SAM_WT06)	08:18		17:01 (KLZ_WT12)	07:24			07:14		07:37 (SAM_WT01)	06:13			05:33		06:11 (EAM_WT01)
	16:52	117	16:19 (KLZ_WT20)	17:42	12	17:13 (EVE_WT02)	18:32			20:24	2	07:39 (SAM_WT01)	21:13			21:55	4	06:15 (EAM_WT01)
6	08:49		09:34 (SAM_WT06)	08:16		17:01 (KLZ_WT12)	07:21			07:12			06:11			05:33		
	16:54	114	16:20 (KLZ_WT20)	17:44	14	17:15 (EVE_WT02)	18:33			20:25			21:14			21:56		
7	08:48		09:35 (SAM_WT06)	08:15		17:02 (KLZ_WT12)	07:19		07:44 (KLZ_WT01)	07:10			06:09			05:32		
	16:55	110	16:22 (KLZ_WT20)	17:45	14	17:16 (EVE_WT02)	18:35	9	07:53 (KLZ_WT01)	20:27			21:16			21:56		
8	08:48		09:35 (SAM_WT06)	08:13		17:04 (KLZ_WT12)	07:17		07:42 (KLZ_WT01)	07:08			06:07			05:32		
	16:56	104	16:22 (KLZ_WT20)	17:47	15	17:19 (EVE_WT02)	18:37	13	07:55 (KLZ_WT01)	20:29			21:17			21:57		
9	08:48		09:37 (SAM_WT06)	08:11		17:05 (KLZ_WT12)	07:15		07:41 (KLZ_WT01)	07:05			06:06			05:31		
	16:57	104	16:25 (KLZ_WT20)	17:49	14	17:20 (EVE_WT02)	18:38	15	07:56 (KLZ_WT01)	20:30			21:19			21:58		
10	08:47		09:37 (SAM_WT06)	08:09			07:13		07:39 (KLZ_WT01)	07:03			06:04			05:31		
	16:59	103	16:26 (KLZ_WT20)	17:51			18:40	17	07:56 (KLZ_WT01)	20:32			21:21			21:59		
11	08:46		09:37 (SAM_WT06)	08:08			07:10		07:39 (KLZ_WT01)	07:01			06:03			05:30		
	17:00	102	16:27 (KLZ_WT20)	17:53			18:42	17	07:56 (KLZ_WT01)	20:33			21:22			22:00		
12	08:46		09:39 (SAM_WT06)	08:06			07:08		07:39 (KLZ_WT01)	06:59			06:01		06:26 (EAM_WT03)	05:30		
	17:02	98	16:29 (KLZ_WT20)	17:54			18:44	17	07:56 (KLZ_WT01)	20:35			21:24	2	06:28 (EAM_WT03)	22:00		
13	08:45		09:39 (SAM_WT06)	08:04			07:06		07:38 (KLZ_WT01)	06:57			05:59		06:25 (EAM_WT03)	05:30		
	17:03	95	16:31 (KLZ_WT20)	17:56			18:45	17	07:55 (KLZ_WT01)	20:37			21:25	3	06:28 (EAM_WT03)	22:01		
14	08:44		09:40 (SAM_WT06)	08:02		08:26 (SAM_WT08)	07:04		07:38 (KLZ_WT01)	06:55			05:58		06:23 (EAM_WT03)	05:30		
	17:05	88	16:32 (KLZ_WT20)	17:58	1	08:27 (SAM_WT08)	18:47	16	07:54 (KLZ_WT01)	20:38			21:27	4	06:27 (EAM_WT03)	22:02		
15	08:44		09:41 (SAM_WT06)	08:00		08:24 (SAM_WT08)	07:02		07:39 (KLZ_WT01)	06:52		07:15 (SAM_WT09)	05:56		06:22 (EAM_WT02)	05:30		
	17:06	86	16:34 (KLZ_WT20)	18:00	3	08:27 (SAM_WT08)	18:49	14	07:53 (KLZ_WT01)	20:40	1	07:16 (SAM_WT09)	21:28	5	06:27 (EAM_WT03)	22:02		
16	08:43		09:42 (SAM_WT06)	07:58		08:22 (SAM_WT08)	06:59		07:22 (SWB_WT01_RP)	06:50		07:13 (SAM_WT09)	05:55		06:21 (EAM_WT02)	05:29		
	17:08	83	16:35 (KLZ_WT20)	18:02	11	08:40 (KLZ_WT02)	18:50	11	07:51 (KLZ_WT01)	20:42	2	07:15 (SAM_WT09)	21:30	5	06:26 (EAM_WT03)	22:03		
17	08:42		09:44 (SAM_WT06)	07:56		08:20 (SAM_WT08)	06:57		07:19 (SWB_WT01_RP)	06:48		07:11 (SAM_WT09)	05:53		06:19 (EAM_WT02)	05:29		
	17:09	78	16:36 (KLZ_WT20)	18:03	18	08:43 (KLZ_WT02)	18:52	4	07:46 (KLZ_WT01)	20:43	3	07:14 (SAM_WT09)	21:31	4	06:23 (EAM_WT02)	22:03		
18	08:41		09:46 (SAM_WT06)	07:55		08:18 (SAM_WT08)	06:55		07:17 (SAM_WT02)	06:46		07:09 (SAM_WT09)	05:52		06:18 (EAM_WT02)	05:29		
	17:11	71	16:37 (KLZ_WT20)	18:05	23	08:45 (KLZ_WT02)	18:54	1	07:18 (SAM_WT02)	20:45	3	07:12 (SAM_WT09)	21:33	6	06:24 (EAM_WT02)	22:03		
19	08:40		09:50 (SAM_WT06)	07:53		08:17 (SAM_WT08)	06:53		07:15 (SAM_WT02)	06:44		07:07 (SAM_WT10)	05:51		06:17 (EAM_WT02)	05:29		
	17:12	61	16:37 (KLZ_WT20)	18:07	25	08:46 (KLZ_WT02)	18:55	3	07:18 (SAM_WT02)	20:47	1	07:08 (SAM_WT10)	21:34	7	06:24 (EAM_WT02)	22:04		
20	08:39		11:31 (KLZ_WT17)	07:51		08:26 (KLZ_WT02)	06:50		07:13 (SAM_WT02)	06:42		07:05 (SAM_WT10)	05:49		06:16 (EAM_WT01)	05:29		
	17:14	52	16:37 (KLZ_WT20)	18:09	22	17:42 (EVE_WT01)	18:57	4	07:17 (SAM_WT02)	20:48	4	07:09 (SAM_WT10)	21:35	8	06:24 (EAM_WT02)	22:04		
21	08:38		11:33 (KLZ_WT17)	07:49		08:26 (KLZ_WT02)	06:48		07:11 (SAM_WT02)	06:40		07:03 (SAM_WT10)	05:48		06:14 (EAM_WT01)	05:30		
	17:16	46	16:37 (KLZ_WT20)	18:11	26	17:44 (EVE_WT01)	18:59	3	07:14 (SAM_WT02)	20:50	6	07:09 (SAM_WT10)	21:37	8	06:22 (EAM_WT02)	22:04		
22	08:37		11:39 (KLZ_WT17)	07:47		08:25 (KLZ_WT02)	06:46		07:08 (SAM_WT03)	06:38		07:01 (SAM_WT10)	05:47		06:13 (EAM_WT01)	05:30		
	17:17	34	16:37 (KLZ_WT20)	18:12	29	17:46 (EVE_WT01)	19:00	2	07:10 (SAM_WT03)	20:52	9	07:10 (SAM_WT10)	21:38	8	06:21 (EAM_WT02)	22:05		
23	08:36		16:12 (KLZ_WT20)	07:45		08:25 (KLZ_WT02)	06:44		07:06 (SAM_WT03)	06:36		06:59 (SAM_WT10)	05:45		06:12 (EAM_WT01)	05:30		
	17:19	25	16:37 (KLZ_WT20)	18:14	32	17:48 (EVE_WT01)	19:02	4	07:10 (SAM_WT03)	20:53	11	07:10 (SAM_WT10)	21:40	8	06:20 (EAM_WT02)	22:05		
24	08:35		16:13 (KLZ_WT20)	07:43		08:25 (KLZ_WT02)	06:41		07:03 (SAM_WT03)	06:34		06:57 (SAM_WT10)	05:44		06:11 (EAM_WT01)	05:30		
	17:21	24	16:37 (KLZ_WT20)	18:16	33	17:50 (EVE_WT01)	19:04	6	07:09 (SAM_WT03)	20:55	13	07:10 (SAM_WT10)	21:41	7	06:18 (EAM_WT01)	22:05		
25	08:34		16:13 (KLZ_WT20)	07:41		08:25 (KLZ_WT02)	06:39		07:01 (SAM_WT03)	06:32		06:55 (SAM_WT10)	05:43		06:10 (EAM_WT01)	05:31		
	17:22	24	16:51 (KLZ_WT13)	18:18	34	17:52 (EVE_WT01)	19:05	7	07:08 (SAM_WT03)	20:56	14	07:09 (SAM_WT10)	21:42	8	06:18 (EAM_WT01)	22:05		
26	08:32		16:15 (KLZ_WT20)	07:38		08:25 (KLZ_WT02)	06:37		07:01 (SAM_WT03)	06:30		06:53 (SAM_WT10)	05:42		06:09 (EAM_WT01)	05:31		
	17:24	24	16:54 (KLZ_WT13)	18:19	31	17:51 (EVE_WT01)	19:07	5	07:06 (SAM_WT03)	20:58	16	07:09 (SAM_WT10)	21:43	9	06:18 (EAM_WT01)	22:05		
27	08:31		16:16 (KLZ_WT20)	07:36		08:26 (KLZ_WT02)	06:34			06:28		06:51 (SAM_WT10)	05:41		06:08 (EAM_WT01)	05:31		
	17:26	23	16:55 (KLZ_WT13)	18:21	21	08:47 (KLZ_WT02)	19:09			21:00	17	07:08 (SAM_WT10)	21:45	10	06:18 (EAM_WT01)	22:05		
28	08:30		16:18 (KLZ_WT20)	07:34		08:25 (KLZ_WT02)	06:32			06:26		06:49 (SAM_WT10)	05:40		06:07 (EAM_WT01)	05:32		
	17:27	22	16:57 (KLZ_WT13)	18:23	21	08:46 (KLZ_WT02)	19:10			21:01	18	07:07 (SAM_WT10)	21:46	11	06:18 (EAM_WT01)	22:05		
29	08:28		16:20 (KLZ_WT20)				07:30		07:52 (SWB_WT02_RP)	06:24		06:50 (SAM_WT10)	05:39		06:06 (EAM_WT01)	05:32		
	17:29	19	16:59 (KLZ_WT13)				20:12	1	07:53 (SWB_WT02_RP)	21:03	17	07:07 (SAM_WT10)	21:47	12	06:18 (EAM_WT01)	22:05		
30	08:27		16:24 (KLZ_WT20)				07:28		07:50 (SWB_WT02_RP)	06:22		06:51 (SAM_WT10)	05:38		06:06 (EAM_WT01)	05:33		
	17:31	13	17:01 (KLZ_WT13)				20:14	1	07:51 (SWB_WT02_RP)	21:05	15	07:06 (SAM_WT10)	21:48	12	06:18 (EAM_WT01)	22:04		
31	08:25		16:55 (KLZ_WT13)				07:25						05:37		06:07 (EAM_WT01)			
	17:33	8	17:03 (KLZ_WT12)				20:15						21:49	11	06:18 (EAM_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2210			429			229			154			167			39	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,64			0,60			0,57			0,65			0,70			0,70	
Total reduction		0,15			0,18			0,21			0,30			0,31			0,30	
Total, real		342			76			48			45			52			12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34		06:09		06:37 (EAM_WT03)	06:57			07:44		08:17 (KLZ_WT01)	07:37		16:38 (KLZ_WT12)	08:26		09:19 (SAM_WT06)
	22:04		21:34	1	06:38 (EAM_WT03)	20:33			19:25	18	08:35 (KLZ_WT01)	17:21	2	16:40 (KLZ_WT12)	16:42	102	16:09 (KLZ_WT20)
2	05:34		06:10			06:59			07:46		08:17 (KLZ_WT01)	07:38		16:35 (KLZ_WT12)	08:27		09:20 (SAM_WT06)
	22:04		21:32			20:31			19:23	18	08:35 (KLZ_WT01)	17:19	15	16:50 (EVE_WT02)	16:41	103	16:09 (KLZ_WT20)
3	05:35		06:12			07:00			07:48		08:17 (KLZ_WT01)	07:40		16:32 (KLZ_WT12)	08:29		09:20 (SAM_WT06)
	22:04		21:30			20:29			19:21	17	08:34 (KLZ_WT01)	17:17	16	16:48 (EVE_WT02)	16:41	104	16:08 (KLZ_WT20)
4	05:36		06:13			07:02			07:49		08:17 (KLZ_WT01)	07:42		16:31 (KLZ_WT12)	08:30		09:20 (SAM_WT06)
	22:03		21:29			20:27			19:19	16	08:33 (KLZ_WT01)	17:16	15	16:46 (EVE_WT02)	16:40	105	16:08 (KLZ_WT20)
5	05:37		06:15			07:03			07:51		08:18 (KLZ_WT01)	07:43		16:31 (KLZ_WT12)	08:31		09:20 (SAM_WT06)
	22:03		21:27			20:24			19:16	14	08:32 (KLZ_WT01)	17:14	13	16:44 (EVE_WT02)	16:40	109	16:07 (KLZ_WT20)
6	05:37		06:16			07:05			07:53		08:19 (KLZ_WT01)	07:45		16:30 (KLZ_WT12)	08:33		09:20 (SAM_WT06)
	22:02		21:25			20:22			19:14	11	08:30 (KLZ_WT01)	17:12	12	16:42 (EVE_WT02)	16:39	114	16:06 (KLZ_WT20)
7	05:38	06:18 (EAM_WT01)	06:18			07:06		07:32 (SAM_WT01)	07:54		08:21 (KLZ_WT01)	07:47		16:30 (KLZ_WT12)	08:34		09:21 (SAM_WT06)
	22:02	3 06:21 (EAM_WT01)	21:24			20:20	2	07:34 (SAM_WT01)	19:12	7	08:28 (KLZ_WT01)	17:11	11	16:41 (EVE_WT02)	16:39	116	16:06 (KLZ_WT20)
8	05:39	06:17 (EAM_WT01)	06:19			07:08		07:33 (SAM_WT01)	07:56			07:49		16:31 (KLZ_WT12)	08:35		09:21 (SAM_WT06)
	22:01	6 06:23 (EAM_WT01)	21:22			20:18	2	07:35 (SAM_WT01)	19:10			17:09	8	16:39 (KLZ_WT12)	16:39	118	16:05 (KLZ_WT20)
9	05:40	06:16 (EAM_WT01)	06:21			07:10			07:57			07:50		16:31 (KLZ_WT12)	08:36		09:21 (SAM_WT06)
	22:00	8 06:24 (EAM_WT01)	21:20			20:15			19:08			17:07	7	16:38 (KLZ_WT12)	16:38	121	16:05 (KLZ_WT20)
10	05:41	06:16 (EAM_WT01)	06:23			07:11			07:59		09:07 (KLZ_WT02)	07:52		16:32 (KLZ_WT12)	08:37		09:22 (SAM_WT06)
	22:00	9 06:25 (EAM_WT01)	21:18			20:13			19:05	4	09:11 (KLZ_WT02)	17:06	4	16:36 (KLZ_WT12)	16:38	120	16:04 (KLZ_WT20)
11	05:42	06:16 (EAM_WT01)	06:24		07:02 (SAM_WT10)	07:13			08:01		09:03 (KLZ_WT02)	07:54		16:26 (KLZ_WT13)	08:38		09:22 (SAM_WT06)
	21:59	10 06:26 (EAM_WT01)	21:16	9	07:11 (SAM_WT10)	20:11			19:03	12	09:15 (KLZ_WT02)	17:04	9	16:35 (KLZ_WT12)	16:38	122	16:04 (KLZ_WT20)
12	05:43	06:15 (EAM_WT01)	06:26		07:00 (SAM_WT10)	07:14			08:02		09:00 (KLZ_WT02)	07:56		15:54 (KLZ_WT20)	08:39		09:22 (SAM_WT06)
	21:58	11 06:26 (EAM_WT01)	21:14	13	07:13 (SAM_WT10)	20:09			19:01	16	09:16 (KLZ_WT02)	17:03	14	16:32 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
13	05:44	06:15 (EAM_WT01)	06:27		06:58 (SAM_WT10)	07:16		07:41 (SWB_WT02_RP)	08:04		08:59 (KLZ_WT02)	07:57		15:51 (KLZ_WT20)	08:40		09:23 (SAM_WT06)
	21:57	12 06:27 (EAM_WT01)	21:13	16	07:14 (SAM_WT10)	20:06	1	07:42 (SWB_WT02_RP)	18:59	19	09:18 (KLZ_WT02)	17:01	20	16:31 (KLZ_WT13)	16:38	125	16:04 (KLZ_WT20)
14	05:45	06:15 (EAM_WT01)	06:29		06:58 (SAM_WT10)	07:17		07:42 (SWB_WT02_RP)	08:06		08:58 (KLZ_WT02)	07:59		15:50 (KLZ_WT20)	08:41		09:23 (SAM_WT06)
	21:56	12 06:27 (EAM_WT01)	21:11	17	07:15 (SAM_WT10)	20:04	1	07:43 (SWB_WT02_RP)	18:57	21	09:19 (KLZ_WT02)	17:00	22	16:29 (KLZ_WT13)	16:38	123	16:04 (KLZ_WT20)
15	05:46	06:16 (EAM_WT01)	06:30		06:57 (SAM_WT10)	07:19			08:07		08:58 (KLZ_WT02)	08:01		15:49 (KLZ_WT20)	08:42		09:24 (SAM_WT06)
	21:56	11 06:27 (EAM_WT01)	21:09	18	07:15 (SAM_WT10)	20:02			18:55	27	18:22 (EVE_WT01)	16:58	23	16:28 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
16	05:47	06:17 (EAM_WT01)	06:32		06:59 (SAM_WT10)	07:21			08:09		08:56 (KLZ_WT02)	08:02		15:48 (KLZ_WT20)	08:43		09:25 (SAM_WT06)
	21:55	11 06:28 (EAM_WT01)	21:07	17	07:16 (SAM_WT10)	19:59			18:52	32	18:23 (EVE_WT01)	16:57	24	16:27 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
17	05:49	06:18 (EAM_WT01)	06:33		07:00 (SAM_WT10)	07:22		07:50 (SAM_WT03)	08:11		08:56 (KLZ_WT02)	08:04		15:47 (KLZ_WT20)	08:44		09:25 (SAM_WT06)
	21:54	10 06:28 (EAM_WT01)	21:05	16	07:16 (SAM_WT10)	19:57	4	07:54 (SAM_WT03)	18:50	34	18:22 (EVE_WT01)	16:56	24	16:25 (KLZ_WT13)	16:38	126	16:05 (KLZ_WT20)
18	05:50	06:19 (EAM_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:48 (SAM_WT03)	08:12		08:56 (KLZ_WT02)	08:06		15:47 (KLZ_WT20)	08:45		09:25 (SAM_WT06)
	21:52	9 06:28 (EAM_WT01)	21:03	14	07:16 (SAM_WT10)	19:55	7	07:55 (SAM_WT03)	18:48	32	18:20 (EVE_WT01)	16:55	24	16:11 (KLZ_WT20)	16:39	124	16:04 (KLZ_WT20)
19	05:51	06:20 (EAM_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (SAM_WT03)	08:14		08:56 (KLZ_WT02)	08:07		15:46 (KLZ_WT20)	08:45		09:26 (SAM_WT06)
	21:51	8 06:28 (EAM_WT01)	21:01	12	07:15 (SAM_WT10)	19:53	6	07:56 (SAM_WT03)	18:46	31	18:18 (EVE_WT01)	16:53	25	16:11 (KLZ_WT20)	16:39	126	16:05 (KLZ_WT20)
20	05:52	06:21 (EAM_WT01)	06:38		07:05 (SAM_WT10)	07:27		07:52 (SAM_WT03)	08:16		08:57 (KLZ_WT02)	08:09		11:14 (KLZ_WT17)	08:46		09:27 (SAM_WT06)
	21:50	8 06:29 (EAM_WT02)	20:59	10	07:15 (SAM_WT10)	19:50	5	07:57 (SAM_WT03)	18:44	28	18:16 (EVE_WT01)	16:52	34	16:12 (KLZ_WT20)	16:39	123	16:05 (KLZ_WT20)
21	05:54	06:23 (EAM_WT01)	06:40		07:06 (SAM_WT10)	07:28		07:53 (SAM_WT03)	08:18		08:56 (KLZ_WT02)	08:11		11:09 (KLZ_WT17)	08:47		09:27 (SAM_WT06)
	21:49	8 06:31 (EAM_WT02)	20:57	8	07:14 (SAM_WT10)	19:48	3	07:56 (SAM_WT03)	18:42	25	18:14 (EVE_WT01)	16:51	46	16:13 (KLZ_WT20)	16:40	123	16:05 (KLZ_WT20)
22	05:55	06:24 (EAM_WT01)	06:41		07:08 (SAM_WT10)	07:30			08:19		08:57 (KLZ_WT02)	08:12		11:07 (KLZ_WT17)	08:47		09:28 (SAM_WT06)
	21:48	8 06:32 (EAM_WT02)	20:55	6	07:14 (SAM_WT10)	19:46			18:40	21	18:12 (EVE_WT01)	16:50	52	16:13 (KLZ_WT20)	16:40	123	16:06 (KLZ_WT20)
23	05:56	06:25 (EAM_WT01)	06:43		07:09 (SAM_WT10)	07:32		07:56 (SAM_WT02)	08:21		08:47 (SAM_WT08)	08:14		09:26 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:47	8 06:33 (EAM_WT02)	20:53	3	07:12 (SAM_WT10)	19:44	4	08:00 (SAM_WT02)	18:38	26	09:16 (KLZ_WT02)	16:49	60	16:13 (KLZ_WT20)	16:41	123	16:06 (KLZ_WT20)
24	05:58	06:26 (EAM_WT02)	06:44			07:33		07:58 (SAM_WT02)	08:23		08:49 (SAM_WT08)	08:16		09:23 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:45	7 06:33 (EAM_WT02)	20:50			19:41	3	08:01 (SAM_WT02)	18:36	22	09:15 (KLZ_WT02)	16:48	71	16:14 (KLZ_WT20)	16:41	124	16:07 (KLZ_WT20)
25	05:59	06:28 (EAM_WT02)	06:46		07:12 (SAM_WT09)	07:35		07:59 (SAM_WT02)	07:24		07:51 (SAM_WT08)	08:17		09:22 (SAM_WT06)	08:48		09:29 (SAM_WT06)
	21:44	6 06:34 (EAM_WT02)	20:48	4	07:16 (SAM_WT09)	19:39	2	08:01 (SAM_WT02)	17:34	17	08:13 (KLZ_WT02)	16:47	78	16:14 (KLZ_WT20)	16:42	124	16:08 (KLZ_WT20)
26	06:00	06:29 (EAM_WT02)	06:48		07:14 (SAM_WT09)	07:36		08:01 (SWB_WT01_RP)	07:26		07:53 (SAM_WT08)	08:19		09:21 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:43	5 06:34 (EAM_WT02)	20:46	3	07:17 (SAM_WT09)	19:37	2	08:03 (SWB_WT01_RP)	17:32	6	08:09 (KLZ_WT02)	16:46	81	16:13 (KLZ_WT20)	16:43	124	16:08 (KLZ_WT20)
27	06:02	06:30 (EAM_WT02)	06:49		07:15 (SAM_WT09)	07:38		08:03 (SWB_WT01_RP)	07:28		07:54 (SAM_WT08)	08:20		09:20 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:41	5 06:35 (EAM_WT03)	20:44	2	07:17 (SAM_WT09)	19:34	10	08:32 (KLZ_WT01)	17:30	3	07:57 (SAM_WT08)	16:45	85	16:13 (KLZ_WT20)	16:43	125	16:09 (KLZ_WT20)
28	06:03	06:32 (EAM_WT02)	06:51		07:17 (SAM_WT09)	07:40		08:21 (KLZ_WT01)	07:30			08:22		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:40	5 06:37 (EAM_WT03)	20:42	1	07:18 (SAM_WT09)	19:32	12	08:33 (KLZ_WT01)	17:28			16:44	88	16:12 (KLZ_WT20)	16:44	124	16:10 (KLZ_WT20)
29	06:05	06:33 (EAM_WT02)	06:52			07:41		08:20 (KLZ_WT01)	07:31			08:23		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:38	4 06:37 (EAM_WT03)	20:40			19:30	14	08:34 (KLZ_WT01)	17:26			16:43	94	16:11 (KLZ_WT20)	16:45	125	16:10 (KLZ_WT20)
30	06:06	06:34 (EAM_WT03)	06:54			07:43		08:18 (KLZ_WT01)	07:33			08:25		09:20 (SAM_WT06)	08:50		09:31 (SAM_WT06)
	21:37	4 06:38 (EAM_WT03)	20:38			19:28	16	08:34 (KLZ_WT01)	17:25			16:43	98	16:10 (KLZ_WT20)	16:46	124	16:11 (KLZ_WT20)
31	06:07	06:36 (EAM_WT03)	06:55						07:35						08:50		09:31 (SAM_WT06)
	21:35	2 06:38 (EAM_WT03)	20:35						17:23						16:47	124	16:12 (KLZ_WT20)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		190		170			94			477			1075			3716	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97		0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70		0,66			0,59			0,57			0,66			0,63	
Total reduction		0,31		0,30			0,25			0,20			0,17			0,14	
Total, real		58		51			23			96			185			515	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:08 (SAM_WT07)	08:24			07:32		17:40 (KLZ_WT20)	07:23		07:45 (SWB_WT01_RP)	06:20			05:36		06:24 (KLZ_WT01)
	16:48	22	10:30 (SAM_WT07)	17:35			18:25	19	17:59 (KLZ_WT13)	20:17	31	19:30 (KLZ_WT05)	21:06			21:51	79	19:56 (KLZ_WT04)
2	08:50		10:09 (SAM_WT07)	08:22			07:30		17:39 (KLZ_WT20)	07:21		07:43 (SWB_WT01_RP)	06:18			05:36		06:25 (KLZ_WT01)
	16:49	21	10:30 (SAM_WT07)	17:36			18:26	22	18:01 (KLZ_WT13)	20:19	32	19:31 (KLZ_WT05)	21:08			21:52	78	19:57 (KLZ_WT04)
3	08:49		10:10 (SAM_WT07)	08:21			07:28		17:39 (KLZ_WT20)	07:19		19:01 (KLZ_WT05)	06:16			05:35		06:03 (SAM_WT10)
	16:50	20	10:30 (SAM_WT07)	17:38			18:28	24	18:03 (EVE_WT02)	20:20	30	19:31 (KLZ_WT05)	21:09			21:53	79	19:57 (KLZ_WT04)
4	08:49		10:10 (SAM_WT07)	08:19		08:57 (SAM_WT06)	07:26		17:38 (KLZ_WT20)	07:16		19:01 (KLZ_WT05)	06:15		06:39 (SAM_WT09)	05:34		06:02 (SAM_WT10)
	16:51	19	10:29 (SAM_WT07)	17:40	7	09:04 (SAM_WT06)	18:30	27	18:05 (EVE_WT02)	20:22	30	19:31 (KLZ_WT05)	21:11	2	06:41 (SAM_WT09)	21:54	81	19:58 (KLZ_WT04)
5	08:49		10:12 (SAM_WT07)	08:18		08:53 (SAM_WT06)	07:24		17:37 (KLZ_WT20)	07:14		19:01 (KLZ_WT05)	06:13		06:37 (SAM_WT09)	05:33		06:02 (SAM_WT10)
	16:52	18	10:30 (SAM_WT07)	17:42	15	09:08 (SAM_WT06)	18:32	29	18:06 (EVE_WT02)	20:24	30	19:31 (KLZ_WT05)	21:13	3	06:40 (SAM_WT09)	21:55	81	19:59 (KLZ_WT04)
6	08:49		10:12 (SAM_WT07)	08:16		08:51 (SAM_WT06)	07:21		07:44 (SAM_WT08)	07:12		07:34 (SAM_WT02)	06:11		06:35 (SAM_WT09)	05:33		06:01 (SAM_WT10)
	16:54	17	10:29 (SAM_WT07)	17:44	19	09:10 (SAM_WT06)	18:33	33	18:07 (KLZ_WT20)	20:25	31	19:30 (KLZ_WT05)	21:14	4	06:39 (SAM_WT09)	21:56	81	19:59 (KLZ_WT04)
7	08:48		09:18 (SAM_WT04)	08:15		08:49 (SAM_WT06)	07:19		07:42 (SAM_WT08)	07:10		07:32 (SAM_WT02)	06:09		06:34 (SAM_WT09)	05:32		06:01 (SAM_WT10)
	16:55	15	10:28 (SAM_WT07)	17:45	22	09:11 (SAM_WT06)	18:35	35	18:07 (KLZ_WT20)	20:27	32	19:29 (KLZ_WT05)	21:16	4	06:38 (SAM_WT09)	21:56	82	20:00 (KLZ_WT04)
8	08:48		09:17 (SAM_WT04)	08:13		08:48 (SAM_WT06)	07:17		07:40 (SAM_WT08)	07:08		07:30 (SAM_WT02)	06:08			05:32		06:00 (SAM_WT10)
	16:56	15	10:27 (SAM_WT07)	17:47	25	09:13 (SAM_WT06)	18:37	38	18:08 (KLZ_WT06)	20:29	31	19:28 (KLZ_WT05)	21:17			21:57	86	20:00 (KLZ_WT04)
9	08:47		09:17 (SAM_WT04)	08:11		08:47 (SAM_WT06)	07:15		07:37 (SAM_WT08)	07:05		07:28 (SAM_WT02)	06:06			05:31		06:00 (SAM_WT10)
	16:57	12	10:26 (SAM_WT07)	17:49	27	09:14 (SAM_WT06)	18:38	40	18:08 (KLZ_WT06)	20:30	32	19:28 (KLZ_WT05)	21:19			21:58	89	20:00 (KLZ_WT04)
10	08:47		09:16 (SAM_WT04)	08:09		08:46 (SAM_WT06)	07:13		07:35 (SAM_WT08)	07:03		19:03 (KLZ_WT05)	06:04			05:31		06:00 (SAM_WT10)
	16:59	6	09:22 (SAM_WT11)	17:51	29	09:15 (SAM_WT06)	18:40	42	18:09 (KLZ_WT06)	20:32	23	19:26 (KLZ_WT05)	21:21			21:59	89	20:01 (KLZ_WT04)
11	08:46		09:15 (SAM_WT04)	08:08		08:45 (SAM_WT06)	07:10		07:34 (SAM_WT08)	07:01		19:04 (KLZ_WT05)	06:03			05:30		05:59 (SAM_WT10)
	17:00	7	09:22 (SAM_WT04)	17:53	31	09:16 (SAM_WT06)	18:42	44	18:17 (KLZ_WT12)	20:33	20	19:24 (KLZ_WT05)	21:22			22:00	92	20:01 (KLZ_WT04)
12	08:46		09:15 (SAM_WT04)	08:06		08:45 (SAM_WT06)	07:08		07:36 (SAM_WT08)	06:59		19:06 (KLZ_WT05)	06:01			05:30		05:59 (SAM_WT10)
	17:02	9	09:24 (SAM_WT11)	17:54	31	09:16 (SAM_WT06)	18:44	42	18:19 (KLZ_WT12)	20:35	16	19:22 (KLZ_WT05)	21:24			22:00	90	20:01 (KLZ_WT04)
13	08:45		09:14 (SAM_WT04)	08:04		08:44 (SAM_WT06)	07:06		17:40 (KLZ_WT20)	06:57		07:19 (SAM_WT03)	05:59			05:30		05:59 (SAM_WT10)
	17:03	10	09:24 (SAM_WT04)	17:56	33	09:17 (SAM_WT06)	18:45	37	18:20 (KLZ_WT12)	20:37	14	19:20 (KLZ_WT05)	21:25			22:01	91	20:02 (KLZ_WT04)
14	08:44		09:13 (SAM_WT04)	08:02		08:44 (SAM_WT06)	07:04		17:42 (KLZ_WT20)	06:55		07:17 (SAM_WT03)	05:58		06:29 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:05	12	09:25 (SAM_WT11)	17:58	33	09:17 (SAM_WT06)	18:47	37	18:22 (KLZ_WT12)	20:38	5	07:22 (SAM_WT03)	21:27	19	19:30 (KLZ_WT04)	22:02	91	20:02 (KLZ_WT04)
15	08:44		09:12 (SAM_WT04)	08:00		08:43 (SAM_WT06)	07:02		17:45 (KLZ_WT20)	06:52		07:15 (SAM_WT03)	05:56		06:27 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:06	14	09:26 (SAM_WT11)	18:00	34	09:17 (SAM_WT06)	18:49	35	18:24 (KLZ_WT12)	20:40	7	07:22 (SAM_WT03)	21:28	33	19:35 (KLZ_WT04)	22:02	94	20:03 (KLZ_WT04)
16	08:43		09:11 (SAM_WT04)	07:58		08:43 (SAM_WT06)	06:59		17:53 (KLZ_WT06)	06:50		07:13 (SAM_WT03)	05:55		06:26 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:08	15	09:26 (SAM_WT11)	18:02	34	09:17 (SAM_WT06)	18:50	28	18:26 (KLZ_WT12)	20:42	8	07:21 (SAM_WT03)	21:30	40	19:38 (KLZ_WT04)	22:03	95	20:03 (KLZ_WT04)
17	08:42		09:10 (SAM_WT04)	07:56		08:43 (SAM_WT06)	06:57		17:55 (KLZ_WT06)	06:48		07:12 (SAM_WT03)	05:53		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:09	17	09:27 (SAM_WT11)	18:03	34	09:17 (SAM_WT06)	18:52	21	18:25 (KLZ_WT12)	20:43	8	07:20 (SAM_WT03)	21:31	47	19:39 (KLZ_WT04)	22:03	94	20:03 (KLZ_WT04)
18	08:41		09:09 (SAM_WT04)	07:55		08:43 (SAM_WT06)	06:55		18:13 (KLZ_WT12)	06:46		07:13 (SAM_WT03)	05:52		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:11	18	09:27 (SAM_WT11)	18:05	34	09:17 (SAM_WT06)	18:54	11	18:24 (KLZ_WT12)	20:45	5	07:18 (SAM_WT03)	21:33	52	19:41 (KLZ_WT04)	22:03	95	20:04 (KLZ_WT04)
19	08:40		09:08 (SAM_WT11)	07:53		08:44 (SAM_WT06)	06:53		18:15 (KLZ_WT12)	06:44			05:51		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:12	19	09:27 (SAM_WT11)	18:07	32	09:16 (SAM_WT06)	18:55	9	18:31 (EVE_WT01)	20:47			21:34	56	19:43 (KLZ_WT04)	22:04	96	20:04 (KLZ_WT04)
20	08:39		09:07 (SAM_WT11)	07:51		08:44 (SAM_WT06)	06:50		18:29 (EVE_WT01)	06:42			05:49		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:14	21	09:28 (SAM_WT11)	18:09	32	09:16 (SAM_WT06)	18:57	3	18:32 (EVE_WT01)	20:48			21:35	60	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
21	08:38		09:05 (SAM_WT11)	07:49		08:45 (SAM_WT06)	06:48		18:27 (EVE_WT01)	06:40			05:48		06:22 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:16	22	09:27 (SAM_WT11)	18:11	30	09:15 (SAM_WT06)	18:59	6	18:33 (EVE_WT01)	20:50			21:37	63	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
22	08:37		09:05 (SAM_WT11)	07:47		08:45 (SAM_WT06)	06:46		18:27 (EVE_WT01)	06:38		07:01 (SAM_WT01)	05:47		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:17	23	09:28 (SAM_WT11)	18:12	29	09:14 (SAM_WT06)	19:00	8	18:35 (EVE_WT01)	20:52	2	07:03 (SAM_WT01)	21:38	66	19:47 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
23	08:36		09:06 (SAM_WT11)	07:45		08:46 (SAM_WT06)	06:43		18:28 (EVE_WT01)	06:36		06:59 (SAM_WT01)	05:45		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:19	22	09:28 (SAM_WT11)	18:14	27	09:13 (SAM_WT06)	19:02	9	18:37 (EVE_WT01)	20:53	2	07:01 (SAM_WT01)	21:40	68	19:48 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
24	08:35		09:06 (SAM_WT11)	07:43		08:48 (SAM_WT06)	06:41		18:28 (EVE_WT01)	06:34		06:57 (SAM_WT01)	05:44		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:21	21	09:27 (SAM_WT11)	18:16	23	09:11 (SAM_WT06)	19:04	10	18:38 (EVE_WT01)	20:55	2	06:59 (SAM_WT01)	21:41	71	19:49 (KLZ_WT04)	22:05	96	20:05 (KLZ_WT04)
25	08:34		09:07 (SAM_WT11)	07:40		08:49 (SAM_WT06)	06:39		18:30 (EVE_WT01)	06:32			05:43		06:22 (KLZ_WT01)	05:31		06:00 (SAM_WT10)
	17:22	20	09:27 (SAM_WT11)	18:18	25	17:52 (KLZ_WT20)	19:05	6	18:36 (EVE_WT01)	20:56			21:42	72	19:50 (KLZ_WT04)	22:05	95	20:05 (KLZ_WT04)
26	08:32		09:09 (SAM_WT11)	07:38		08:51 (SAM_WT06)	06:37		18:15 (KLZ_WT05)	06:30			05:42		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:24	18	09:27 (SAM_WT11)	18:19	24	17:54 (KLZ_WT13)	19:07	7	18:22 (KLZ_WT05)	20:58			21:43	74	19:51 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
27	08:31		09:09 (SAM_WT11)	07:36		08:55 (SAM_WT06)	06:34		18:11 (KLZ_WT05)	06:28			05:41		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:26	16	09:25 (SAM_WT11)	18:21	21	17:56 (KLZ_WT13)	19:09	14	18:25 (KLZ_WT05)	21:00			21:45	75	19:52 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
28	08:30		09:11 (SAM_WT11)	07:34		17:41 (KLZ_WT20)	06:32		18:08 (KLZ_WT05)	06:26			05:40		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:27	14	09:25 (SAM_WT11)	18:23	16	17:57 (KLZ_WT13)	19:10	18	18:26 (KLZ_WT05)	21:01			21:46	75	19:52 (KLZ_WT04)	22:05	93	20:06 (KLZ_WT04)
29	08:28		09:13 (SAM_WT11)				07:30		19:06 (KLZ_WT05)	06:24			05:39		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:29	9	09:22 (SAM_WT11)				20:12	22	19:28 (KLZ_WT05)	21:03			21:47	77	19:53 (KLZ_WT04)	22:05	91	20:05 (KLZ_WT04)
30	08:27						07:28		19:05 (KLZ_WT05)	06:22			05:38		06:23 (KLZ_WT01)	05:33		06:03 (SAM_WT10)
	17:31						20:14	25	19:30 (KLZ_WT05)	21:05			21:48	78	19:55 (KLZ_WT04)	22:04	90	20:06 (KLZ_WT04)
31	08:25						07:25		07:48 (SWB_WT01_RP)				05:37		06:24 (KLZ_WT01)			
	17:33						20:15	29	19:31 (KLZ_WT05)				21:49	77	19:55 (KLZ_WT04)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		472			667			730			391			1116			2704	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,55			0,56			0,64			0,63			0,59			0,59	
Total reduction		0,13			0,16			0,24			0,28			0,26			0,25	
Total, real		63			109			173			111			294			689	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (SAM_WT10)	06:09			06:57		19:04 (KLZ_WT05)	07:44		18:19 (KLZ_WT20)	07:36		08:16 (SAM_WT06)	08:26		08:57 (SAM_WT04)
	22:04	92 20:06 (KLZ_WT04)	21:34			20:33	20	19:24 (KLZ_WT05)	19:25	35	18:58 (KLZ_WT12)	17:21	28	08:44 (SAM_WT06)	16:42	7	09:04 (SAM_WT04)
2	05:34	06:04 (SAM_WT10)	06:10			06:59		19:01 (KLZ_WT05)	07:46		08:14 (SAM_WT08)	07:38		08:17 (SAM_WT06)	08:27		08:59 (SAM_WT04)
	22:04	90 20:05 (KLZ_WT04)	21:32			20:31	23	19:24 (KLZ_WT05)	19:23	43	18:56 (KLZ_WT12)	17:19	27	08:44 (SAM_WT06)	16:41	6	09:05 (SAM_WT04)
3	05:35	06:05 (SAM_WT10)	06:12			07:00		07:26 (SAM_WT02)	07:48		08:12 (SAM_WT08)	07:40		08:17 (SAM_WT06)	08:29		09:00 (SAM_WT04)
	22:04	90 20:06 (KLZ_WT04)	21:30			20:29	32	19:26 (KLZ_WT05)	19:21	43	18:54 (KLZ_WT12)	17:17	25	08:42 (SAM_WT06)	16:41	12	10:09 (SAM_WT07)
4	05:36	06:06 (SAM_WT10)	06:13			07:02		07:27 (SAM_WT02)	07:49		08:14 (SAM_WT08)	07:42		08:19 (SAM_WT06)	08:30		09:02 (SAM_WT04)
	22:03	88 20:06 (KLZ_WT04)	21:29			20:27	31	19:25 (KLZ_WT05)	19:19	41	18:46 (KLZ_WT06)	17:16	22	08:41 (SAM_WT06)	16:40	14	10:12 (SAM_WT07)
5	05:37	06:06 (SAM_WT10)	06:15			07:03		07:29 (SAM_WT02)	07:51		08:16 (SAM_WT08)	07:43		08:21 (SAM_WT06)	08:31		09:03 (SAM_WT04)
	22:03	83 20:05 (KLZ_WT04)	21:27			20:24	32	19:26 (KLZ_WT05)	19:16	39	18:45 (KLZ_WT06)	17:14	18	08:39 (SAM_WT06)	16:40	15	10:13 (SAM_WT07)
6	05:37	06:07 (SAM_WT10)	06:16		06:44 (SAM_WT09)	07:05		07:30 (SAM_WT02)	07:52		08:17 (SAM_WT08)	07:45		08:23 (SAM_WT06)	08:33		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:25	4	06:48 (SAM_WT09)	20:22	31	19:26 (KLZ_WT05)	19:14	36	18:43 (KLZ_WT06)	17:12	14	08:37 (SAM_WT06)	16:39	16	10:15 (SAM_WT07)
7	05:38	06:08 (SAM_WT10)	06:18		06:46 (SAM_WT09)	07:06		18:57 (KLZ_WT05)	07:54		08:19 (SAM_WT08)	07:47		08:27 (SAM_WT06)	08:34		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:24	3	06:49 (SAM_WT09)	20:20	29	19:26 (KLZ_WT05)	19:12	34	18:43 (KLZ_WT20)	17:11	6	08:33 (SAM_WT06)	16:39	18	10:17 (SAM_WT07)
8	05:39	06:09 (SAM_WT10)	06:19		06:47 (SAM_WT09)	07:08		18:55 (KLZ_WT05)	07:56		08:21 (SAM_WT08)	07:49			08:35		09:59 (SAM_WT07)
	22:01	81 20:05 (KLZ_WT04)	21:22	3	06:50 (SAM_WT09)	20:18	30	19:25 (KLZ_WT05)	19:10	32	18:43 (KLZ_WT20)	17:09			16:39	18	10:17 (SAM_WT07)
9	05:40	06:10 (SAM_WT10)	06:21		06:48 (SAM_WT09)	07:10		18:56 (KLZ_WT05)	07:57		18:12 (KLZ_WT20)	07:50			08:36		09:58 (SAM_WT07)
	22:00	80 20:05 (KLZ_WT04)	21:20	1	06:49 (SAM_WT09)	20:15	29	19:25 (KLZ_WT05)	19:08	28	18:40 (EVE_WT02)	17:07			16:38	20	10:18 (SAM_WT07)
10	05:41	06:11 (SAM_WT10)	06:23			07:11		07:36 (SWB_WT01_RP)	07:59		18:13 (KLZ_WT20)	07:52			08:37		09:58 (SAM_WT07)
	22:00	79 20:05 (KLZ_WT04)	21:18			20:13	32	19:24 (KLZ_WT05)	19:05	25	18:38 (EVE_WT02)	17:06			16:38	21	10:19 (SAM_WT07)
11	05:42	06:32 (KLZ_WT01)	06:24			07:13		07:38 (SWB_WT01_RP)	08:01		18:13 (KLZ_WT20)	07:54			08:38		09:58 (SAM_WT07)
	21:59	78 20:04 (KLZ_WT04)	21:16			20:11	31	19:23 (KLZ_WT05)	19:03	23	18:36 (KLZ_WT13)	17:04			16:38	22	10:20 (SAM_WT07)
12	05:43	06:32 (KLZ_WT01)	06:26			07:14		07:39 (SWB_WT01_RP)	08:02		18:13 (KLZ_WT20)	07:56			08:39		09:58 (SAM_WT07)
	21:58	78 20:04 (KLZ_WT04)	21:14			20:09	29	19:22 (KLZ_WT05)	19:01	20	18:33 (KLZ_WT13)	17:03			16:38	22	10:20 (SAM_WT07)
13	05:44	06:32 (KLZ_WT01)	06:27			07:16		07:41 (SWB_WT01_RP)	08:04		18:14 (KLZ_WT20)	07:57		08:45 (SAM_WT11)	08:40		09:58 (SAM_WT07)
	21:57	78 20:04 (KLZ_WT04)	21:12			20:06	26	19:21 (KLZ_WT05)	18:59	17	18:31 (KLZ_WT13)	17:01	9	08:54 (SAM_WT11)	16:38	23	10:21 (SAM_WT07)
14	05:45	06:32 (KLZ_WT01)	06:29			07:17		18:56 (KLZ_WT05)	08:06		18:15 (KLZ_WT20)	07:59		08:43 (SAM_WT11)	08:41		09:59 (SAM_WT07)
	21:56	77 20:03 (KLZ_WT04)	21:11			20:04	23	19:19 (KLZ_WT05)	18:57	14	18:29 (KLZ_WT13)	17:00	14	08:57 (SAM_WT11)	16:38	23	10:22 (SAM_WT07)
15	05:46	06:32 (KLZ_WT01)	06:30			07:19		18:58 (KLZ_WT05)	08:07		09:25 (SAM_WT06)	08:01		08:42 (SAM_WT11)	08:42		09:59 (SAM_WT07)
	21:56	76 20:02 (KLZ_WT04)	21:09			20:02	19	19:17 (KLZ_WT05)	18:55	23	18:27 (KLZ_WT13)	16:58	16	08:58 (SAM_WT11)	16:38	24	10:23 (SAM_WT07)
16	05:47	06:32 (KLZ_WT01)	06:32			07:21		18:59 (KLZ_WT05)	08:09		09:22 (SAM_WT06)	08:02		08:42 (SAM_WT11)	08:43		09:59 (SAM_WT07)
	21:55	75 20:02 (KLZ_WT04)	21:07			19:59	15	19:14 (KLZ_WT05)	18:52	23	18:24 (KLZ_WT20)	16:57	18	09:00 (SAM_WT11)	16:38	25	10:24 (SAM_WT07)
17	05:49	06:31 (KLZ_WT01)	06:33			07:22		19:02 (KLZ_WT05)	08:11		09:20 (SAM_WT06)	08:04		08:41 (SAM_WT11)	08:44		10:00 (SAM_WT07)
	21:54	75 20:01 (KLZ_WT04)	21:05			19:57	9	19:11 (KLZ_WT05)	18:50	23	18:22 (KLZ_WT20)	16:56	20	09:01 (SAM_WT11)	16:38	24	10:24 (SAM_WT07)
18	05:50	06:31 (KLZ_WT01)	06:35			07:24		19:18 (EVE_WT01)	08:12		09:18 (SAM_WT06)	08:06		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:52	73 20:00 (KLZ_WT04)	21:03			19:55	5	19:23 (EVE_WT01)	18:48	25	09:43 (SAM_WT06)	16:55	21	09:01 (SAM_WT11)	16:39	24	10:24 (SAM_WT07)
19	05:51	06:31 (KLZ_WT01)	06:37		07:03 (SAM_WT01)	07:25		19:16 (EVE_WT01)	08:14		09:17 (SAM_WT06)	08:07		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:51	71 19:59 (KLZ_WT04)	21:01	2	07:05 (SAM_WT01)	19:53	10	19:26 (EVE_WT01)	18:46	28	09:45 (SAM_WT06)	16:53	22	09:02 (SAM_WT11)	16:39	25	10:25 (SAM_WT07)
20	05:52	06:31 (KLZ_WT01)	06:38		07:05 (SAM_WT01)	07:27		19:15 (EVE_WT01)	08:16		09:16 (SAM_WT06)	08:09		08:40 (SAM_WT11)	08:46		10:01 (SAM_WT07)
	21:50	70 19:58 (KLZ_WT04)	20:59	2	07:07 (SAM_WT01)	19:50	9	19:24 (EVE_WT01)	18:44	30	09:46 (SAM_WT06)	16:52	23	09:03 (SAM_WT11)	16:39	25	10:26 (SAM_WT07)
21	05:54	06:32 (KLZ_WT01)	06:40		07:06 (SAM_WT01)	07:28		19:13 (EVE_WT01)	08:17		09:15 (SAM_WT06)	08:11		08:41 (SAM_WT11)	08:47		10:01 (SAM_WT07)
	21:49	68 19:58 (KLZ_WT04)	20:57	1	07:07 (SAM_WT01)	19:48	8	19:21 (EVE_WT01)	18:42	31	09:46 (SAM_WT06)	16:51	22	09:03 (SAM_WT11)	16:40	25	10:26 (SAM_WT07)
22	05:55	06:32 (KLZ_WT01)	06:41			07:30		19:13 (EVE_WT01)	08:19		09:14 (SAM_WT06)	08:12		08:43 (SAM_WT11)	08:47		10:02 (SAM_WT07)
	21:48	65 19:57 (KLZ_WT04)	20:55			19:46	7	19:20 (EVE_WT01)	18:40	32	09:46 (SAM_WT06)	16:50	21	09:04 (SAM_WT11)	16:40	25	10:27 (SAM_WT07)
23	05:56	06:32 (KLZ_WT01)	06:43			07:32		19:12 (EVE_WT01)	08:21		09:14 (SAM_WT06)	08:14		08:44 (SAM_WT11)	08:48		10:02 (SAM_WT07)
	21:47	62 19:55 (KLZ_WT04)	20:52			19:43	5	19:17 (EVE_WT01)	18:38	33	09:47 (SAM_WT06)	16:49	19	09:03 (SAM_WT11)	16:41	25	10:27 (SAM_WT07)
24	05:58	06:33 (KLZ_WT01)	06:44			07:33		18:59 (KLZ_WT12)	08:23		09:14 (SAM_WT06)	08:16		08:46 (SAM_WT04)	08:48		10:02 (SAM_WT07)
	21:45	58 19:54 (KLZ_WT04)	20:50			19:41	7	19:15 (EVE_WT01)	18:36	33	09:47 (SAM_WT06)	16:48	18	09:04 (SAM_WT11)	16:41	25	10:27 (SAM_WT07)
25	05:59	06:34 (KLZ_WT01)	06:46		07:16 (SAM_WT03)	07:35		18:56 (KLZ_WT12)	07:24		08:14 (SAM_WT06)	08:17		08:48 (SAM_WT04)	08:48		10:04 (SAM_WT07)
	21:44	55 19:53 (KLZ_WT04)	20:48	5	07:21 (SAM_WT03)	19:39	10	19:06 (KLZ_WT12)	17:34	33	08:47 (SAM_WT06)	16:47	17	09:05 (SAM_WT11)	16:42	24	10:28 (SAM_WT07)
26	06:00	06:34 (KLZ_WT01)	06:48		07:14 (SAM_WT03)	07:36		18:39 (KLZ_WT06)	07:26		08:14 (SAM_WT06)	08:19		08:49 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:43	51 19:51 (KLZ_WT04)	20:46	9	07:23 (SAM_WT03)	19:37	18	19:07 (KLZ_WT12)	17:32	33	08:47 (SAM_WT06)	16:46	15	09:04 (SAM_WT11)	16:43	24	10:28 (SAM_WT07)
27	06:02	06:35 (KLZ_WT01)	06:49		07:15 (SAM_WT03)	07:38		18:36 (KLZ_WT06)	07:28		08:13 (SAM_WT06)	08:20		08:51 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:41	45 19:49 (KLZ_WT04)	20:44	8	07:23 (SAM_WT03)	19:34	26	19:08 (KLZ_WT12)	17:30	33	08:46 (SAM_WT06)	16:45	14	09:05 (SAM_WT11)	16:43	25	10:29 (SAM_WT07)
28	06:03	06:37 (KLZ_WT01)	06:51		07:17 (SAM_WT03)	07:40		18:27 (KLZ_WT20)	07:30		08:13 (SAM_WT06)	08:22		08:53 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:40	37 19:47 (KLZ_WT04)	20:42	6	07:23 (SAM_WT03)	19:32	33	19:05 (KLZ_WT12)	17:28	33	08:46 (SAM_WT06)	16:44	12	09:05 (SAM_WT11)	16:44	24	10:29 (SAM_WT07)
29	06:05	06:38 (KLZ_WT01)	06:52		07:18 (SAM_WT03)	07:41		18:23 (KLZ_WT20)	07:31		08:14 (SAM_WT06)	08:23		08:54 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:38	28 19:44 (KLZ_WT04)	20:40	5	07:23 (SAM_WT03)	19:30	36	19:03 (KLZ_WT12)	17:26	32	08:46 (SAM_WT06)	16:43	11	09:05 (SAM_WT11)	16:45	24	10:29 (SAM_WT07)
30	06:06	19:28 (KLZ_WT04)	06:54		07:20 (SAM_WT03)	07:43		18:20 (KLZ_WT20)	07:33		08:14 (SAM_WT06)	08:25		08:56 (SAM_WT04)	08:50		10:06 (SAM_WT07)
	21:37	10 19:38 (KLZ_WT04)	20:38	14	19:21 (KLZ_WT05)	19:28	37	19:00 (KLZ_WT12)	17:25	32	08:46 (SAM_WT06)	16:43	9	09:05 (SAM_WT11)	16:46	23	10:29 (SAM_WT07)
31	06:07		06:55		19:05 (KLZ_WT05)				07:35		08:15 (SAM_WT06)				08:50		10:07 (SAM_WT07)
	21:35		20:35	17	19:22 (KLZ_WT05)				17:23	30	08:45 (SAM_WT06)				16:47	22	10:29 (SAM_WT07)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		2077		80			652			937			441			650	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97		0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59		0,64			0,63			0,60			0,54			0,57	
Total reduction		0,26		0,29			0,27			0,21			0,14			0,13	
Total, real		533		23			174			198			62			82	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	17	09:43 (SAM_WT05)	17:35	29	09:29 (SAM_WT07)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	17	09:43 (SAM_WT05)	17:36	29	09:29 (SAM_WT07)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	17	09:44 (SAM_WT05)	17:38	30	09:29 (SAM_WT07)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	16	09:43 (SAM_WT05)	17:40	30	09:30 (SAM_WT07)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	16	09:44 (SAM_WT05)	17:42	32	09:30 (SAM_WT07)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	14	09:43 (SAM_WT05)	17:44	35	09:30 (SAM_WT07)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	13	09:43 (SAM_WT05)	17:45	38	09:30 (SAM_WT07)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	12	09:43 (SAM_WT05)	17:47	39	09:30 (SAM_WT07)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	11	09:43 (SAM_WT05)	17:49	41	09:30 (SAM_WT07)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	9	09:42 (SAM_WT05)	17:51	41	09:29 (SAM_WT07)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	5	09:40 (SAM_WT05)	17:53	41	09:28 (SAM_WT07)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46			08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02			17:54	40	09:27 (SAM_WT07)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45			08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03			17:56	38	09:25 (SAM_WT07)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44			08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05			17:58	35	09:24 (SAM_WT07)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44			08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06			18:00	30	09:21 (SAM_WT07)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43			07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08			18:02	24	09:17 (SAM_WT07)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42			07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09			18:03	21	08:41 (SAM_WT11)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41			07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11			18:05	20	08:40 (SAM_WT11)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40			07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12			18:07	18	08:39 (SAM_WT11)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39			07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14			18:09	16	08:38 (SAM_WT11)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38			07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16			18:11	12	08:36 (SAM_WT11)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37			07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17			18:12	6	08:33 (SAM_WT11)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	7	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	14	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	18	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	20	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	22	09:24 (SAM_WT07)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	23	09:25 (SAM_WT07)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	25	09:26 (SAM_WT07)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	26	09:27 (SAM_WT07)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	28	09:28 (SAM_WT07)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		330			645			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,55			0,60			0,60			0,57			0,71	
Total reduction		0,13			0,16			0,22			0,27			0,25			0,31	
Total, real		43			104			171			276			39			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	6 06:10 (KLZ_WT01)	21:34	1	06:38 (SAM_WT09)	20:33	53	20:03 (EVE_WT01)	19:25	22	18:58 (KLZ_WT13)	17:21	41	08:59 (SAM_WT07)	16:42	5	09:22 (SAM_WT05)
2	05:34	06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	5 06:09 (KLZ_WT01)	21:32			20:31	54	20:03 (EVE_WT01)	19:23	15	08:32 (SAM_WT06)	17:19	39	08:59 (SAM_WT07)	16:41	8	09:25 (SAM_WT05)
3	05:35	06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	4 06:09 (KLZ_WT01)	21:30			20:29	57	20:03 (EVE_WT01)	19:21	9	08:28 (SAM_WT06)	17:17	39	08:59 (SAM_WT07)	16:41	10	09:26 (SAM_WT05)
4	05:36	06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	3 06:09 (KLZ_WT01)	21:29	4	20:11 (KLZ_WT06)	20:27	54	20:00 (EVE_WT01)	19:19			17:16	37	08:59 (SAM_WT07)	16:40	12	09:28 (SAM_WT05)
5	05:37	06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	1 06:07 (KLZ_WT01)	21:27	11	20:15 (KLZ_WT06)	20:24	51	19:58 (EVE_WT01)	19:16			17:14	36	09:00 (SAM_WT07)	16:40	13	09:28 (SAM_WT05)
6	05:37		06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02		21:25	15	20:16 (KLZ_WT06)	20:22	50	19:55 (EVE_WT01)	19:14			17:12	32	09:00 (SAM_WT07)	16:39	14	09:29 (SAM_WT05)
7	05:38		06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02		21:24	18	20:18 (KLZ_WT06)	20:20	49	19:54 (EVE_WT01)	19:12			17:11	30	09:00 (SAM_WT07)	16:39	15	09:31 (SAM_WT05)
8	05:39		06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01		21:22	20	20:19 (KLZ_WT06)	20:18	47	19:51 (EVE_WT01)	19:10			17:09	30	09:00 (SAM_WT07)	16:39	16	09:31 (SAM_WT05)
9	05:40		06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00		21:20	22	20:19 (KLZ_WT06)	20:15	44	19:49 (KLZ_WT12)	19:08			17:07	29	09:00 (SAM_WT07)	16:38	17	09:32 (SAM_WT05)
10	05:41		06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00		21:18	23	20:20 (KLZ_WT06)	20:13	42	19:46 (KLZ_WT12)	19:05			17:06	29	09:00 (SAM_WT07)	16:38	17	09:32 (SAM_WT05)
11	05:42		06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59		21:16	25	20:20 (KLZ_WT06)	20:11	39	19:43 (KLZ_WT20)	19:03			17:04	28	09:00 (SAM_WT07)	16:38	17	09:33 (SAM_WT05)
12	05:43		06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58		21:14	26	20:21 (KLZ_WT06)	20:09	38	19:42 (KLZ_WT20)	19:01			17:03	26	08:58 (SAM_WT07)	16:38	17	09:33 (SAM_WT05)
13	05:44		06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57		21:12	26	20:20 (KLZ_WT06)	20:06	35	19:40 (KLZ_WT20)	18:59			17:01	25	08:58 (SAM_WT07)	16:38	18	09:34 (SAM_WT05)
14	05:45		06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56		21:11	27	20:21 (KLZ_WT06)	20:04	33	19:37 (KLZ_WT20)	18:57			17:00	23	08:57 (SAM_WT07)	16:38	17	09:34 (SAM_WT05)
15	05:46		06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56		21:09	26	20:20 (KLZ_WT06)	20:02	38	19:35 (KLZ_WT20)	18:55			16:58	22	08:57 (SAM_WT07)	16:38	18	09:35 (SAM_WT05)
16	05:48		06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55		21:07	31	20:20 (KLZ_WT06)	19:59	42	19:33 (KLZ_WT20)	18:52			16:57	21	16:26 (KLZ_WT15)	16:38	18	09:36 (SAM_WT05)
17	05:49		06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54		21:05	31	20:19 (KLZ_WT06)	19:57	43	19:31 (KLZ_WT20)	18:50			16:56	18	16:25 (KLZ_WT15)	16:38	18	09:36 (SAM_WT05)
18	05:50		06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52		21:03	30	20:19 (KLZ_WT06)	19:55	42	19:28 (KLZ_WT20)	18:48			16:55	14	16:23 (KLZ_WT15)	16:39	18	09:36 (SAM_WT05)
19	05:51		06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14			08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51		21:01	27	20:18 (KLZ_WT06)	19:53	47	19:26 (KLZ_WT20)	18:46			16:53	7	16:22 (KLZ_WT15)	16:39	18	09:37 (SAM_WT05)
20	05:52		06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09			08:46		09:20 (SAM_WT05)
	21:50		20:59	24	20:18 (KLZ_WT06)	19:50	46	19:24 (KLZ_WT20)	18:44	8	09:05 (SAM_WT11)	16:52			16:39	18	09:38 (SAM_WT05)
21	05:54		06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11			08:47		09:20 (SAM_WT05)
	21:49		20:57	21	20:16 (KLZ_WT06)	19:48	34	08:41 (SAM_WT06)	18:42	13	09:07 (SAM_WT11)	16:51			16:40	18	09:38 (SAM_WT05)
22	05:55		06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12			08:47		09:21 (SAM_WT05)
	21:48		20:55	18	20:14 (KLZ_WT06)	19:46	35	08:42 (SAM_WT06)	18:40	17	09:09 (SAM_WT11)	16:50			16:40	18	09:39 (SAM_WT05)
23	05:56		06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14			08:48		09:21 (SAM_WT05)
	21:47		20:52	15	20:12 (KLZ_WT06)	19:44	39	19:08 (KLZ_WT13)	18:38	19	09:10 (SAM_WT11)	16:49			16:41	18	09:39 (SAM_WT05)
24	05:58		06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16			08:48		09:21 (SAM_WT05)
	21:45		20:50	10	20:10 (KLZ_WT06)	19:41	40	19:10 (KLZ_WT13)	18:36	20	09:11 (SAM_WT11)	16:48			16:41	18	09:39 (SAM_WT05)
25	05:59		06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17			08:48		09:22 (SAM_WT05)
	21:44		20:48	5	19:31 (KLZ_WT20)	19:39	43	19:11 (KLZ_WT13)	17:34	20	08:11 (SAM_WT11)	16:47			16:42	18	09:40 (SAM_WT05)
26	06:00		06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19			08:49		09:22 (SAM_WT05)
	21:43		20:46	17	19:37 (KLZ_WT20)	19:37	42	19:10 (KLZ_WT13)	17:32	26	08:49 (SAM_WT07)	16:46			16:43	18	09:40 (SAM_WT05)
27	06:02		06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20			08:49		09:23 (SAM_WT05)
	21:41		20:44	22	19:39 (KLZ_WT20)	19:34	40	19:08 (KLZ_WT13)	17:30	31	08:51 (SAM_WT07)	16:45			16:43	18	09:41 (SAM_WT05)
28	06:03		06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22			08:49		09:23 (SAM_WT05)
	21:40		20:42	25	19:42 (KLZ_WT20)	19:32	36	19:05 (KLZ_WT13)	17:28	36	08:54 (SAM_WT07)	16:44			16:44	18	09:41 (SAM_WT05)
29	06:05		06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23			08:49		09:23 (SAM_WT05)
	21:38		20:40	33	19:56 (KLZ_WT12)	19:30	33	19:03 (KLZ_WT13)	17:26	39	08:55 (SAM_WT07)	16:43			16:45	18	09:41 (SAM_WT05)
30	06:06		06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25			08:50		09:24 (SAM_WT05)
	21:37		20:38	42	19:59 (KLZ_WT12)	19:28	28	19:00 (KLZ_WT13)	17:25	41	08:57 (SAM_WT07)	16:43			16:46	18	09:42 (SAM_WT05)
31	06:08	06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	1 06:37 (SAM_WT09)	20:35	49	20:01 (EVE_WT01)				17:23	41	08:58 (SAM_WT07)				16:47	17	09:42 (SAM_WT05)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		20		644			1274			357			526			501	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97		0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71		0,58			0,61			0,56			0,55			0,53	
Total reduction		0,31		0,27			0,26			0,20			0,14			0,12	
Total, real		6		171			326			70			75			58	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		20:36 (KLZ_WT13)	05:36		06:27 (SAM_WT06)
	16:48			17:35	37	17:05 (KLZ_WT16)	18:25			20:17	20	08:07 (SAM_WT11)	21:06	2	20:38 (KLZ_WT13)	21:50	28	21:13 (EVE_WT01)
2	08:49			08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		20:35 (KLZ_WT13)	05:36		06:28 (SAM_WT06)
	16:49			17:36	37	17:07 (KLZ_WT16)	18:26			20:19	17	08:05 (SAM_WT11)	21:08	5	20:40 (KLZ_WT13)	21:52	26	21:13 (EVE_WT01)
3	08:49			08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		20:34 (KLZ_WT13)	05:35		06:28 (SAM_WT06)
	16:50			17:38	35	17:07 (KLZ_WT16)	18:28			20:20	17	08:04 (SAM_WT11)	21:09	7	20:41 (KLZ_WT13)	21:53	20	06:48 (SAM_WT06)
4	08:49			08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		20:34 (KLZ_WT13)	05:34		06:29 (SAM_WT06)
	16:51			17:40	33	09:56 (CBR_WT01)	18:30			20:22	21	08:06 (SAM_WT07)	21:11	9	20:43 (KLZ_WT13)	21:54	18	06:47 (SAM_WT06)
5	08:49			08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:52			17:42	32	09:55 (CBR_WT01)	18:32			20:24	24	08:07 (SAM_WT07)	21:13	10	20:44 (KLZ_WT13)	21:55	17	06:47 (SAM_WT06)
6	08:49			08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:54			17:44	30	09:54 (CBR_WT01)	18:33			20:25	27	08:07 (SAM_WT07)	21:14	11	20:45 (KLZ_WT13)	21:56	16	06:46 (SAM_WT06)
7	08:48			08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:55			17:45	28	09:53 (CBR_WT01)	18:35			20:27	29	08:08 (SAM_WT07)	21:16	13	20:47 (KLZ_WT13)	21:56	16	06:47 (SAM_WT06)
8	08:48			08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:56			17:47	27	09:53 (CBR_WT01)	18:37			20:29	31	08:09 (SAM_WT07)	21:17	14	20:48 (KLZ_WT13)	21:57	15	06:46 (SAM_WT06)
9	08:47			08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58			17:49	23	09:51 (CBR_WT01)	18:39			20:30	31	08:09 (SAM_WT07)	21:19	25	20:49 (KLZ_WT13)	21:58	12	06:45 (SAM_WT06)
10	08:47			08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59			17:51	20	09:49 (CBR_WT01)	18:40			20:32	32	08:09 (SAM_WT07)	21:21	27	20:48 (KLZ_WT13)	21:59	11	06:45 (SAM_WT06)
11	08:46		09:31 (CBR_WT01)	08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	4	09:35 (CBR_WT01)	17:53	16	09:47 (CBR_WT01)	18:42			20:33	32	08:09 (SAM_WT07)	21:22	26	20:47 (KLZ_WT13)	22:00	10	06:45 (SAM_WT06)
12	08:46		09:28 (CBR_WT01)	08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	10	09:38 (CBR_WT01)	17:54	9	09:43 (CBR_WT01)	18:44			20:35	33	08:08 (SAM_WT07)	21:24	26	20:45 (KLZ_WT13)	22:00	9	06:44 (SAM_WT06)
13	08:45		09:27 (CBR_WT01)	08:04			07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	14	09:41 (CBR_WT01)	17:56			18:45	1	07:29 (SAM_WT04)	20:37	33	08:08 (SAM_WT07)	21:25	21	06:48 (SAM_WT06)	22:01	7	06:43 (SAM_WT06)
14	08:44		09:26 (CBR_WT01)	08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	17	09:43 (CBR_WT01)	17:58	4	08:30 (SAM_WT05)	18:47	4	07:30 (SAM_WT04)	20:38	33	08:08 (SAM_WT07)	21:27	23	06:48 (SAM_WT06)	22:01	5	06:43 (SAM_WT06)
15	08:44		09:25 (CBR_WT01)	08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	19	09:44 (CBR_WT01)	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	32	08:07 (SAM_WT07)	21:28	24	06:49 (SAM_WT06)	22:02	3	06:42 (SAM_WT06)
16	08:43		09:24 (CBR_WT01)	07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		
	17:08	22	09:46 (CBR_WT01)	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	34	08:07 (SAM_WT07)	21:30	25	06:50 (SAM_WT06)	22:03		
17	08:42		09:23 (CBR_WT01)	07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		
	17:09	24	09:47 (CBR_WT01)	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	34	08:06 (SAM_WT07)	21:31	25	06:49 (SAM_WT06)	22:03		
18	08:41		09:23 (CBR_WT01)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		
	17:11	25	09:48 (CBR_WT01)	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	34	08:05 (SAM_WT07)	21:33	27	21:03 (EVE_WT01)	22:03		
19	08:40		09:22 (CBR_WT01)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		
	17:12	28	09:50 (CBR_WT01)	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	36	20:20 (EVE_WT02)	21:34	28	21:04 (EVE_WT01)	22:04		
20	08:39		09:22 (CBR_WT01)	07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		
	17:14	29	09:51 (CBR_WT01)	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	35	20:22 (EVE_WT02)	21:35	31	21:06 (EVE_WT01)	22:04		
21	08:38		09:21 (CBR_WT01)	07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		
	17:16	30	09:51 (CBR_WT01)	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	28	20:23 (EVE_WT02)	21:37	33	21:06 (EVE_WT01)	22:04		
22	08:37		09:21 (CBR_WT01)	07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		
	17:17	31	09:52 (CBR_WT01)	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	27	20:25 (EVE_WT02)	21:38	35	21:07 (EVE_WT01)	22:05		
23	08:36		09:21 (CBR_WT01)	07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		
	17:19	32	09:53 (CBR_WT01)	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	22	20:26 (EVE_WT02)	21:39	36	21:09 (EVE_WT01)	22:05		
24	08:35		09:20 (CBR_WT01)	07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		
	17:21	33	09:53 (CBR_WT01)	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	13	20:28 (EVE_WT02)	21:41	37	21:10 (EVE_WT01)	22:05		
25	08:34		09:20 (CBR_WT01)	07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		20:17 (EVE_WT02)	05:43		06:24 (SAM_WT06)	05:31		
	17:22	34	09:54 (CBR_WT01)	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	12	20:29 (EVE_WT02)	21:42	36	21:11 (EVE_WT01)	22:05		
26	08:32		09:21 (CBR_WT01)	07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		20:18 (EVE_WT02)	05:42		06:24 (SAM_WT06)	05:31		
	17:24	34	09:55 (CBR_WT01)	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	9	20:27 (EVE_WT02)	21:43	36	21:12 (EVE_WT01)	22:05		
27	08:31		09:20 (CBR_WT01)	07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		20:21 (EVE_WT02)	05:41		06:25 (SAM_WT06)	05:32		
	17:26	35	09:55 (CBR_WT01)	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	3	20:24 (EVE_WT02)	21:45	36	21:13 (EVE_WT01)	22:05		
28	08:30		09:21 (CBR_WT01)	07:34			06:32		06:54 (SAM_WT11)	06:26			05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	35	09:56 (CBR_WT01)	18:23			19:10	15	07:09 (SAM_WT11)	21:01			21:46	36	21:14 (EVE_WT01)	22:05	4	06:45 (SAM_WT06)
29	08:28		09:20 (CBR_WT01)				07:30		07:52 (SAM_WT11)	06:24			05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	35	09:55 (CBR_WT01)				20:12	17	08:09 (SAM_WT11)	21:03			21:47	36	21:16 (EVE_WT01)	22:05	6	06:46 (SAM_WT06)
30	08:27		09:21 (CBR_WT01)				07:28		07:50 (SAM_WT11)	06:22			05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	35	09:56 (CBR_WT01)				20:14	19	08:09 (SAM_WT11)	21:05			21:48	35	21:15 (EVE_WT01)	22:04	8	06:48 (SAM_WT06)
31	08:25		09:21 (CBR_WT01)				07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	37	17:03 (KLZ_WT16)				20:15	20	08:08 (SAM_WT11)				21:49	31	21:14 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		563			562			201			699			766			231	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,55			0,61			0,62			0,65			0,68	
Total reduction		0,13			0,16			0,23			0,28			0,29			0,29	
Total, real		72			90			45			197			222			68	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	10	06:49 (SAM_WT06)	21:34	26	20:56 (KLZ_WT13)	20:33	32	08:08 (SAM_WT07)	19:25			17:21	22	09:20 (CBR_WT01)	16:42	4	09:17 (CBR_WT01)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		
	22:04	11	06:49 (SAM_WT06)	21:32	26	20:58 (KLZ_WT13)	20:31	32	08:07 (SAM_WT07)	19:23			17:19	24	09:21 (CBR_WT01)	16:41		
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		
	22:04	12	06:50 (SAM_WT06)	21:30	27	20:59 (KLZ_WT13)	20:29	31	08:07 (SAM_WT07)	19:21			17:17	27	09:22 (CBR_WT01)	16:41		
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		
	22:03	14	06:52 (SAM_WT06)	21:29	22	20:59 (KLZ_WT13)	20:27	31	08:06 (SAM_WT07)	19:19			17:16	29	09:23 (CBR_WT01)	16:40		
5	05:37		06:37 (SAM_WT06)	06:15		20:45 (KLZ_WT13)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		
	22:03	15	06:52 (SAM_WT06)	21:27	13	20:58 (KLZ_WT13)	20:24	29	08:05 (SAM_WT07)	19:16			17:14	30	09:24 (CBR_WT01)	16:40		
6	05:37		06:37 (SAM_WT06)	06:17		20:44 (KLZ_WT13)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		
	22:02	16	06:53 (SAM_WT06)	21:25	12	20:56 (KLZ_WT13)	20:22	26	08:03 (SAM_WT07)	19:14			17:12	32	09:25 (CBR_WT01)	16:39		
7	05:38		06:36 (SAM_WT06)	06:18		20:44 (KLZ_WT13)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		
	22:02	17	06:53 (SAM_WT06)	21:23	11	20:55 (KLZ_WT13)	20:20	24	08:02 (SAM_WT07)	19:12			17:11	33	09:26 (CBR_WT01)	16:39		
8	05:39		06:36 (SAM_WT06)	06:20		20:43 (KLZ_WT13)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		
	22:01	18	06:54 (SAM_WT06)	21:22	10	20:53 (KLZ_WT13)	20:18	21	08:00 (SAM_WT07)	19:10			17:09	36	16:39 (KLZ_WT16)	16:39		
9	05:40		06:36 (SAM_WT06)	06:21		20:43 (KLZ_WT13)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		
	22:00	19	06:55 (SAM_WT06)	21:20	8	20:51 (KLZ_WT13)	20:15	17	07:58 (SAM_WT07)	19:08			17:07	39	16:38 (KLZ_WT16)	16:38		
10	05:41		06:36 (SAM_WT06)	06:23		20:44 (KLZ_WT13)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		
	22:00	24	21:20 (EVE_WT01)	21:18	6	20:50 (KLZ_WT13)	20:13	18	07:59 (SAM_WT11)	19:05			17:06	38	16:36 (KLZ_WT16)	16:38		
11	05:42		06:36 (SAM_WT06)	06:24		20:44 (KLZ_WT13)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		
	21:59	27	21:21 (EVE_WT01)	21:16	4	20:48 (KLZ_WT13)	20:11	20	08:00 (SAM_WT11)	19:03			17:04	37	16:35 (KLZ_WT16)	16:38		
12	05:43		06:35 (SAM_WT06)	06:26		20:45 (KLZ_WT13)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		
	21:58	30	21:22 (EVE_WT01)	21:14	1	20:46 (KLZ_WT13)	20:09	20	07:59 (SAM_WT11)	19:01			17:03	35	09:27 (CBR_WT01)	16:38		
13	05:44		06:35 (SAM_WT06)	06:27			07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		
	21:57	33	21:23 (EVE_WT01)	21:12			20:06	19	08:00 (SAM_WT11)	18:59			17:01	35	09:27 (CBR_WT01)	16:38		
14	05:45		06:35 (SAM_WT06)	06:29			07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		
	21:56	34	21:24 (EVE_WT01)	21:11			20:04	17	07:59 (SAM_WT11)	18:57	2	08:57 (SAM_WT05)	17:00	35	09:28 (CBR_WT01)	16:38		
15	05:46		06:35 (SAM_WT06)	06:30			07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		
	21:55	36	21:24 (EVE_WT01)	21:09			20:02	15	07:59 (SAM_WT11)	18:55	11	09:02 (SAM_WT05)	16:59	35	09:28 (CBR_WT01)	16:38		
16	05:48		06:34 (SAM_WT06)	06:32		20:27 (EVE_WT02)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		
	21:54	36	21:23 (EVE_WT01)	21:07	5	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	34	09:28 (CBR_WT01)	16:38		
17	05:49		06:34 (SAM_WT06)	06:33		20:24 (EVE_WT02)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		
	21:53	36	21:22 (EVE_WT01)	21:05	10	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	34	09:28 (CBR_WT01)	16:38		
18	05:50		06:34 (SAM_WT06)	06:35		20:23 (EVE_WT02)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		
	21:52	36	21:21 (EVE_WT01)	21:03	12	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39		
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		
	21:51	37	21:20 (EVE_WT01)	21:01	16	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39		
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		
	21:50	38	21:19 (EVE_WT01)	20:59	24	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39		
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		
	21:49	37	21:19 (EVE_WT01)	20:57	26	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40		
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		
	21:48	35	21:17 (EVE_WT01)	20:55	29	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40		
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		
	21:47	32	21:16 (EVE_WT01)	20:52	36	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	28	09:26 (CBR_WT01)	16:41		
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		
	21:45	29	21:14 (EVE_WT01)	20:50	35	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	26	09:26 (CBR_WT01)	16:41		
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		
	21:44	29	21:14 (EVE_WT01)	20:48	34	08:08 (SAM_WT07)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	24	09:25 (CBR_WT01)	16:42		
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		
	21:43	26	07:00 (SAM_WT06)	20:46	34	08:09 (SAM_WT07)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	22	09:24 (CBR_WT01)	16:43		
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		
	21:41	26	07:00 (SAM_WT06)	20:44	34	08:09 (SAM_WT07)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	20	09:24 (CBR_WT01)	16:43		
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		
	21:40	24	07:00 (SAM_WT06)	20:42	32	08:09 (SAM_WT07)	19:32	8	08:12 (SAM_WT04)	17:28	3	07:59 (SAM_WT05)	16:44	17	09:23 (CBR_WT01)	16:44		
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31			08:23		09:07 (CBR_WT01)	08:49		
	21:38	23	06:59 (SAM_WT06)	20:40	33	08:09 (SAM_WT07)	19:30	6	08:12 (SAM_WT04)	17:26			16:43	14	09:21 (CBR_WT01)	16:45		
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		
	21:37	22	06:58 (SAM_WT06)	20:38	33	08:09 (SAM_WT07)	19:28	2	08:09 (SAM_WT04)	17:25	11	09:14 (CBR_WT01)	16:43	10	09:20 (CBR_WT01)	16:46		
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		
	21:35	21	06:58 (SAM_WT06)	20:35	33	08:08 (SAM_WT07)				17:23	17	09:17 (CBR_WT01)				16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case	803			592			488			266			871			4		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,67			0,61			0,62			0,56			0,53			0,53		
Total reduction	0,29			0,28			0,26			0,20			0,14			0,12		
Total, real	235			165			128			53			121			0		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January		February			March			April			May			June		
1	08:49		08:24			07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48		17:35			18:25	121	17:51 (KLZ_WT10)	20:17	195	16:35 (CBR_WT01)	21:06	110	20:38 (EVE_WT02)	21:50	20	06:24 (SAM_WT11)
2	08:49		08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49		17:36			18:26	125	17:51 (KLZ_WT10)	20:19	194	16:35 (CBR_WT01)	21:08	106	20:40 (EVE_WT02)	21:51	21	06:25 (SAM_WT11)
3	08:49		08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50		17:38			18:28	127	17:50 (KLZ_WT10)	20:20	194	16:35 (CBR_WT01)	21:09	102	20:41 (EVE_WT02)	21:53	22	06:25 (SAM_WT11)
4	08:49		08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51		17:40			18:30	128	17:49 (KLZ_WT10)	20:22	194	16:35 (CBR_WT01)	21:11	96	16:17 (CBR_WT01)	21:54	24	06:26 (SAM_WT11)
5	08:49		08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52		17:42			18:32	124	17:46 (KLZ_WT10)	20:24	193	16:35 (CBR_WT01)	21:13	91	16:16 (CBR_WT01)	21:55	25	06:27 (SAM_WT11)
6	08:49		08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54		17:44			18:33	116	17:32 (KLZ_WT11)	20:25	192	16:34 (CBR_WT01)	21:14	85	16:14 (CBR_WT01)	21:55	26	06:27 (SAM_WT11)
7	08:48		08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55		17:45			18:35	115	17:30 (KLZ_WT11)	20:27	191	16:34 (CBR_WT01)	21:16	79	16:13 (CBR_WT01)	21:56	27	06:28 (SAM_WT11)
8	08:48		08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56		17:47			18:37	110	17:26 (KLZ_WT11)	20:28	189	16:34 (CBR_WT01)	21:17	72	16:11 (CBR_WT01)	21:57	28	06:28 (SAM_WT11)
9	08:47		08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57		17:49			18:38	108	15:26 (CBR_WT01)	20:30	187	16:34 (CBR_WT01)	21:19	66	16:10 (CBR_WT01)	21:58	29	06:29 (SAM_WT11)
10	08:47		08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59		17:51			18:40	111	15:27 (CBR_WT01)	20:32	185	16:34 (CBR_WT01)	21:20	58	16:08 (CBR_WT01)	21:59	29	06:29 (SAM_WT11)
11	08:46		08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00		17:53			18:42	113	15:28 (CBR_WT01)	20:33	182	16:32 (CBR_WT01)	21:22	51	16:07 (CBR_WT01)	21:59	30	06:29 (SAM_WT11)
12	08:46		08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02		17:54			18:44	116	15:30 (CBR_WT01)	20:35	179	16:32 (CBR_WT01)	21:24	42	20:54 (KLZ_WT13)	22:00	31	06:30 (SAM_WT11)
13	08:45		08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03		17:56			18:45	118	15:30 (CBR_WT01)	20:37	175	16:32 (CBR_WT01)	21:25	29	20:56 (KLZ_WT13)	22:01	31	06:30 (SAM_WT11)
14	08:44		08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:55 (KLZ_WT13)	05:30		05:59 (SAM_WT11)
	17:05		17:58			18:47	120	15:31 (CBR_WT01)	20:38	171	16:31 (CBR_WT01)	21:27	2	20:57 (KLZ_WT13)	22:01	32	06:31 (SAM_WT11)
15	08:44		08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56			05:30		05:59 (SAM_WT11)
	17:06		18:00			18:49	128	15:31 (CBR_WT01)	20:40	167	16:31 (CBR_WT01)	21:28			22:02	32	06:31 (SAM_WT11)
16	08:43		07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55			05:29		05:59 (SAM_WT11)
	17:08		18:02			18:50	143	15:32 (CBR_WT01)	20:42	161	16:31 (CBR_WT01)	21:30			22:02	33	06:32 (SAM_WT11)
17	08:42		07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53			05:29		05:59 (SAM_WT11)
	17:09		18:03			18:52	151	15:32 (CBR_WT01)	20:43	155	16:30 (CBR_WT01)	21:31			22:03	33	06:32 (SAM_WT11)
18	08:41		07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52			05:29		05:59 (SAM_WT11)
	17:11		18:05			18:54	159	15:33 (CBR_WT01)	20:45	149	16:30 (CBR_WT01)	21:32			22:03	33	06:32 (SAM_WT11)
19	08:40		07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51			05:29		05:59 (SAM_WT11)
	17:12		18:07			18:55	165	15:34 (CBR_WT01)	20:47	139	16:29 (CBR_WT01)	21:34			22:04	33	06:32 (SAM_WT11)
20	08:39		07:51		17:22 (KLZ_WT11)	06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49			05:30		05:59 (SAM_WT11)
	17:14		18:09	6	17:28 (KLZ_WT11)	18:57	169	15:34 (CBR_WT01)	20:48	130	16:29 (CBR_WT01)	21:35			22:04	33	06:32 (SAM_WT11)
21	08:38		07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48			05:30		05:59 (SAM_WT11)
	17:16		18:11	40	17:31 (KLZ_WT11)	18:59	173	15:34 (CBR_WT01)	20:50	129	16:28 (CBR_WT01)	21:37			22:04	33	06:32 (SAM_WT11)
22	08:37		07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47			05:30		06:00 (SAM_WT11)
	17:17		18:12	54	17:33 (KLZ_WT11)	19:00	177	15:34 (CBR_WT01)	20:51	131	16:27 (CBR_WT01)	21:38			22:04	33	06:33 (SAM_WT11)
23	08:36		07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46			05:30		06:00 (SAM_WT11)
	17:19		18:14	72	17:46 (KLZ_WT10)	19:02	180	15:35 (CBR_WT01)	20:53	131	16:27 (CBR_WT01)	21:39			22:05	33	06:33 (SAM_WT11)
24	08:35		07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21		18:16	88	17:50 (KLZ_WT08)	19:04	183	15:34 (CBR_WT01)	20:55	130	16:26 (CBR_WT01)	21:41	2	21:10 (EVE_WT01)	22:05	33	06:33 (SAM_WT11)
25	08:33		07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22		18:18	99	17:52 (KLZ_WT08)	19:05	186	15:35 (CBR_WT01)	20:56	129	16:25 (CBR_WT01)	21:42	3	21:11 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
26	08:32		07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24		18:19	108	17:54 (KLZ_WT08)	19:07	188	15:35 (CBR_WT01)	20:58	126	16:24 (CBR_WT01)	21:43	7	21:12 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
27	08:31		07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26		18:21	116	17:55 (KLZ_WT08)	19:09	190	15:36 (CBR_WT01)	21:00	123	16:23 (CBR_WT01)	21:45	10	21:13 (EVE_WT01)	22:05	32	06:33 (SAM_WT11)
28	08:30		07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28		18:23	120	17:54 (KLZ_WT08)	19:10	191	15:35 (CBR_WT01)	21:01	119	16:22 (CBR_WT01)	21:46	12	06:19 (SAM_WT11)	22:05	32	06:34 (SAM_WT11)
29	08:28					07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29					20:12	191	16:35 (CBR_WT01)	21:03	116	16:22 (CBR_WT01)	21:47	14	06:20 (SAM_WT11)	22:05	31	06:33 (SAM_WT11)
30	08:27					07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31					20:14	194	16:35 (CBR_WT01)	21:05	112	16:21 (CBR_WT01)	21:48	16	06:22 (SAM_WT11)	22:04	31	06:34 (SAM_WT11)
31	08:25					07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33					20:15	195	16:36 (CBR_WT01)				21:49	18	06:23 (SAM_WT11)			
Potential sun hours	262		279			367			415			482			495		
Total, worst case				703			4615			4768			1071			896	
Sun reduction				0,30			0,38			0,46			0,46			0,44	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,71			0,70			0,70			0,70			0,71	
Total reduction				0,21			0,26			0,32			0,31			0,31	
Total, real				146			1203			1505			335			274	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November	December
1	05:34		06:04 (SAM_WT08)	06:09		07:09 (SAM_WT04)	06:57		08:19 (SAM_WT05)	07:44		14:12 (CBR_WT01)	07:36	08:26
	22:04	30	06:34 (SAM_WT11)	21:33	45	16:15 (CBR_WT01)	20:33	182	16:32 (CBR_WT01)	19:25	117	16:09 (CBR_WT01)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10		07:07 (SAM_WT04)	06:59		08:18 (SAM_WT05)	07:46		14:13 (CBR_WT01)	07:38	08:27
	22:04	30	06:34 (SAM_WT11)	21:32	54	16:17 (CBR_WT01)	20:31	184	16:31 (CBR_WT01)	19:23	115	16:08 (CBR_WT01)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12		07:07 (SAM_WT04)	07:00		08:17 (SAM_WT05)	07:48		14:14 (CBR_WT01)	07:40	08:29
	22:03	29	06:34 (SAM_WT11)	21:30	61	16:19 (CBR_WT01)	20:29	187	16:32 (CBR_WT01)	19:21	112	16:06 (CBR_WT01)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13		07:05 (SAM_WT04)	07:02		08:16 (SAM_WT05)	07:49		14:15 (CBR_WT01)	07:42	08:30
	22:03	28	06:34 (SAM_WT11)	21:29	69	16:21 (CBR_WT01)	20:27	189	16:31 (CBR_WT01)	19:19	110	16:05 (CBR_WT01)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15		07:05 (SAM_WT04)	07:03		08:15 (SAM_WT05)	07:51		14:16 (CBR_WT01)	07:43	08:31
	22:03	27	06:33 (SAM_WT11)	21:27	75	16:22 (CBR_WT01)	20:24	191	16:31 (CBR_WT01)	19:16	107	16:03 (CBR_WT01)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16		07:04 (SAM_WT04)	07:05		08:14 (SAM_WT05)	07:52		14:17 (CBR_WT01)	07:45	08:33
	22:02	26	06:33 (SAM_WT11)	21:25	81	16:23 (CBR_WT01)	20:22	192	16:30 (CBR_WT01)	19:14	114	18:05 (KLZ_WT11)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18		07:04 (SAM_WT04)	07:06		08:14 (SAM_WT05)	07:54		14:18 (CBR_WT01)	07:47	08:34
	22:02	25	06:33 (SAM_WT11)	21:23	87	16:25 (CBR_WT01)	20:20	193	16:30 (CBR_WT01)	19:12	116	18:07 (KLZ_WT11)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20		07:03 (SAM_WT04)	07:08		08:13 (SAM_WT05)	07:56		14:20 (CBR_WT01)	07:49	08:35
	22:01	24	06:33 (SAM_WT11)	21:22	92	16:25 (CBR_WT01)	20:18	194	16:29 (CBR_WT01)	19:10	119	18:20 (KLZ_WT10)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21		07:02 (SAM_WT04)	07:10		08:13 (SAM_WT05)	07:57		14:20 (CBR_WT01)	07:50	08:36
	22:00	23	06:33 (SAM_WT11)	21:20	98	20:51 (EVE_WT02)	20:15	194	16:29 (CBR_WT01)	19:08	127	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23		07:02 (SAM_WT04)	07:11		08:12 (SAM_WT05)	07:59		14:22 (CBR_WT01)	07:52	08:37
	22:00	22	06:33 (SAM_WT11)	21:18	103	20:50 (EVE_WT02)	20:13	195	16:28 (CBR_WT01)	19:05	128	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24		07:01 (SAM_WT04)	07:13		08:12 (SAM_WT05)	08:01		14:24 (CBR_WT01)	07:54	08:38
	21:59	20	06:32 (SAM_WT11)	21:16	108	20:48 (EVE_WT02)	20:11	195	16:28 (CBR_WT01)	19:03	126	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26		07:02 (SAM_WT04)	07:14		08:11 (SAM_WT05)	08:02		14:25 (CBR_WT01)	07:56	08:39
	21:58	19	06:32 (SAM_WT11)	21:14	110	16:29 (CBR_WT01)	20:09	195	16:27 (CBR_WT01)	19:01	123	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27		07:01 (SAM_WT04)	07:16		08:12 (SAM_WT05)	08:04		14:27 (CBR_WT01)	07:57	08:40
	21:57	17	06:31 (SAM_WT11)	21:12	115	16:29 (CBR_WT01)	20:06	193	16:27 (CBR_WT01)	18:59	120	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29		07:02 (SAM_WT04)	07:17		08:11 (SAM_WT05)	08:06		14:29 (CBR_WT01)	07:59	08:41
	21:56	15	06:30 (SAM_WT11)	21:11	118	16:30 (CBR_WT01)	20:04	193	16:26 (CBR_WT01)	18:57	119	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30		07:01 (SAM_WT04)	07:19		08:11 (SAM_WT05)	08:07		14:32 (CBR_WT01)	08:01	08:42
	21:55	13	06:29 (SAM_WT11)	21:09	122	16:30 (CBR_WT01)	20:02	192	16:25 (CBR_WT01)	18:55	112	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32		07:02 (SAM_WT04)	07:21		08:11 (SAM_WT05)	08:09		14:33 (CBR_WT01)	08:02	08:43
	21:54	11	06:28 (SAM_WT11)	21:07	124	16:31 (CBR_WT01)	19:59	190	16:24 (CBR_WT01)	18:52	106	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33		07:02 (SAM_WT04)	07:22		08:12 (SAM_WT05)	08:11		14:36 (CBR_WT01)	08:04	08:44
	21:53	9	21:22 (EVE_WT01)	21:05	127	16:31 (CBR_WT01)	19:57	188	16:24 (CBR_WT01)	18:50	95	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35		07:03 (SAM_WT04)	07:24		08:11 (SAM_WT05)	08:12		14:40 (CBR_WT01)	08:06	08:44
	21:52	5	21:21 (EVE_WT01)	21:03	129	16:32 (CBR_WT01)	19:55	186	16:22 (CBR_WT01)	18:48	81	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37		07:04 (SAM_WT04)	07:25		08:12 (SAM_WT05)	08:14		14:43 (CBR_WT01)	08:07	08:45
	21:51	3	21:20 (EVE_WT01)	21:01	130	16:32 (CBR_WT01)	19:53	184	16:22 (CBR_WT01)	18:46	64	18:06 (KLZ_WT11)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38		07:05 (SAM_WT04)	07:27		08:13 (SAM_WT05)	08:16		14:47 (CBR_WT01)	08:09	08:46
	21:50	2	21:19 (EVE_WT01)	20:59	131	16:32 (CBR_WT01)	19:50	182	16:22 (CBR_WT01)	18:44	51	18:03 (KLZ_WT11)	16:52	16:39
21	05:54			06:40		07:06 (SAM_WT04)	07:28		08:14 (SAM_WT05)	08:17		14:54 (CBR_WT01)	08:11	08:46
	21:49			20:57	130	16:32 (CBR_WT01)	19:48	177	16:20 (CBR_WT01)	18:42	33	18:01 (KLZ_WT11)	16:51	16:40
22	05:55			06:41		07:09 (SAM_WT04)	07:30		08:15 (SAM_WT05)	08:19		17:54 (KLZ_WT11)	08:12	08:47
	21:48			20:55	129	16:33 (CBR_WT01)	19:46	175	16:20 (CBR_WT01)	18:40	3	17:57 (KLZ_WT11)	16:50	16:40
23	05:56			06:43		08:39 (SAM_WT05)	07:32		08:16 (SAM_WT05)	08:21			08:14	08:47
	21:46			20:52	128	16:32 (CBR_WT01)	19:43	170	16:18 (CBR_WT01)	18:38			16:49	16:41
24	05:58			06:44		08:35 (SAM_WT05)	07:33		08:17 (SAM_WT05)	08:23			08:15	08:48
	21:45			20:50	141	16:33 (CBR_WT01)	19:41	165	16:17 (CBR_WT01)	18:36			16:48	16:41
25	05:59			06:46		08:31 (SAM_WT05)	07:35		08:18 (SAM_WT05)	07:24			08:17	08:48
	21:44			20:48	149	16:32 (CBR_WT01)	19:39	160	16:16 (CBR_WT01)	17:34			16:47	16:42
26	06:00			06:48		08:29 (SAM_WT05)	07:36		08:21 (SAM_WT05)	07:26			08:19	08:49
	21:42			20:46	156	16:33 (CBR_WT01)	19:37	154	16:15 (CBR_WT01)	17:32			16:46	16:43
27	06:02			06:49		08:26 (SAM_WT05)	07:38		08:24 (SAM_WT05)	07:28			08:20	08:49
	21:41			20:44	162	16:32 (CBR_WT01)	19:34	146	16:14 (CBR_WT01)	17:30			16:45	16:43
28	06:03			06:51		08:25 (SAM_WT05)	07:40		08:27 (SAM_WT05)	07:29			08:22	08:49
	21:40			20:42	167	16:33 (CBR_WT01)	19:32	136	16:12 (CBR_WT01)	17:28			16:44	16:44
29	06:05		21:07 (KLZ_WT13)	06:52		08:23 (SAM_WT05)	07:41		14:11 (CBR_WT01)	07:31			08:23	08:49
	21:38	1	21:08 (KLZ_WT13)	20:40	171	16:32 (CBR_WT01)	19:30	121	16:12 (CBR_WT01)	17:26			16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54		08:22 (SAM_WT05)	07:43		14:11 (CBR_WT01)	07:33			08:24	08:49
	21:37	16	21:07 (KLZ_WT13)	20:38	175	16:33 (CBR_WT01)	19:28	119	16:10 (CBR_WT01)	17:25			16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55		08:20 (SAM_WT05)				07:35				08:49
	21:35	34	21:06 (KLZ_WT13)	20:35	179	16:32 (CBR_WT01)				17:23				16:47
Potential sun hours	498			451			380			333			269	248
Total, worst case		429			3666			5322			2198			
Sun reduction		0,45			0,47			0,43			0,36			
Oper. time red.		0,97			0,97			0,97			0,97			
Wind dir. red.		0,71			0,71			0,69			0,72			
Total reduction		0,31			0,32			0,29			0,25			
Total, real		132			1178			1561			559			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:49			08:24			07:32			07:23		19:33 (CBR_WT01)	06:20		19:41 (SAM_WT05)	05:36		21:09 (SAM_WT07)
	16:48			17:34			18:25			20:17	18	19:51 (CBR_WT01)	21:06	20	20:01 (SAM_WT05)	21:50	10	21:19 (SAM_WT07)
2	08:49			08:22			07:30			07:21		19:32 (CBR_WT01)	06:18		19:42 (SAM_WT05)	05:35		21:08 (SAM_WT07)
	16:49			17:36			18:26			20:18	20	19:52 (CBR_WT01)	21:08	17	19:59 (SAM_WT05)	21:51	11	21:19 (SAM_WT07)
3	08:49			08:21			07:28			07:19		19:31 (CBR_WT01)	06:16		19:44 (SAM_WT05)	05:35		21:08 (SAM_WT07)
	16:50			17:38			18:28			20:20	21	19:52 (CBR_WT01)	21:09	12	19:56 (SAM_WT05)	21:52	13	21:21 (SAM_WT07)
4	08:49			08:19			07:26			07:16		19:31 (CBR_WT01)	06:14			05:34		21:07 (SAM_WT07)
	16:51			17:40			18:30			20:22	22	19:53 (CBR_WT01)	21:11			21:53	14	21:21 (SAM_WT07)
5	08:49			08:18		17:12 (ALB_WT01)	07:23			07:14		19:30 (CBR_WT01)	06:13			05:33		21:07 (SAM_WT07)
	16:52			17:42	1	17:13 (ALB_WT01)	18:32			20:23	22	19:52 (CBR_WT01)	21:12			21:54	16	21:23 (SAM_WT07)
6	08:48			08:16		17:12 (ALB_WT01)	07:21			07:12		19:30 (CBR_WT01)	06:11			05:33		21:07 (SAM_WT07)
	16:54			17:43	3	17:15 (ALB_WT01)	18:33			20:25	21	19:51 (CBR_WT01)	21:14			21:55	16	21:23 (SAM_WT07)
7	08:48			08:14		17:13 (ALB_WT01)	07:19			07:10		19:30 (CBR_WT01)	06:09			05:32		21:07 (SAM_WT07)
	16:55			17:45	4	17:17 (ALB_WT01)	18:35			20:27	21	19:51 (CBR_WT01)	21:16			21:56	17	21:24 (SAM_WT07)
8	08:48			08:13			07:17			07:08		19:31 (CBR_WT01)	06:07			05:32		21:06 (SAM_WT07)
	16:56			17:47			18:37			20:28	19	19:50 (CBR_WT01)	21:17			21:57	18	21:24 (SAM_WT07)
9	08:47			08:11			07:15			07:05		19:32 (CBR_WT01)	06:06			05:31		21:07 (SAM_WT07)
	16:57			17:49			18:38			20:30	25	19:59 (SAM_WT05)	21:19			21:58	19	21:26 (SAM_WT07)
10	08:47			08:09			07:13			07:03		19:33 (CBR_WT01)	06:04			05:31		21:07 (SAM_WT07)
	16:59			17:51			18:40			20:32	30	20:03 (SAM_WT05)	21:20			21:59	20	21:27 (SAM_WT07)
11	08:46			08:07			07:10			07:01		19:34 (CBR_WT01)	06:02			05:30		21:06 (SAM_WT07)
	17:00			17:53			18:42			20:33	30	20:04 (SAM_WT05)	21:22			21:59	21	21:27 (SAM_WT07)
12	08:46		16:27 (RHR_WT01)	08:06			07:08			06:59		19:41 (SAM_WT05)	06:01			05:30		21:06 (SAM_WT07)
	17:02	1	16:28 (RHR_WT01)	17:54			18:43			20:35	25	20:06 (SAM_WT05)	21:23			22:00	21	21:27 (SAM_WT07)
13	08:45		16:26 (RHR_WT01)	08:04			07:06			06:57		19:40 (SAM_WT05)	05:59		20:55 (KLZ_WT20)	05:30		21:07 (SAM_WT07)
	17:03	4	16:30 (RHR_WT01)	17:56			18:45			20:37	27	20:07 (SAM_WT05)	21:25	1	20:56 (KLZ_WT20)	22:01	21	21:28 (SAM_WT07)
14	08:44		16:28 (RHR_WT01)	08:02			07:04			06:54		19:39 (SAM_WT05)	05:58		20:56 (KLZ_WT20)	05:30		21:07 (SAM_WT07)
	17:04	4	16:32 (RHR_WT01)	17:58			18:47			20:38	29	20:08 (SAM_WT05)	21:26	1	20:57 (KLZ_WT20)	22:01	22	21:29 (SAM_WT07)
15	08:44		16:28 (RHR_WT01)	08:00			07:01			06:52		19:38 (SAM_WT05)	05:56			05:30		21:07 (SAM_WT07)
	17:06	6	16:34 (RHR_WT01)	18:00			18:49			20:40	31	20:09 (SAM_WT05)	21:28			22:02	22	21:29 (SAM_WT07)
16	08:43		16:28 (RHR_WT01)	07:58		17:32 (MXS_WT01)	06:59			06:50		19:37 (SAM_WT05)	05:55			05:29		21:07 (SAM_WT07)
	17:08	8	16:36 (RHR_WT01)	18:02	2	17:34 (MXS_WT01)	18:50			20:42	32	20:09 (SAM_WT05)	21:29			22:02	23	21:30 (SAM_WT07)
17	08:42		16:28 (RHR_WT01)	07:56		17:32 (MXS_WT01)	06:57			06:48		19:36 (SAM_WT05)	05:53			05:29		21:07 (SAM_WT07)
	17:09	9	16:37 (RHR_WT01)	18:03	4	17:36 (MXS_WT01)	18:52			20:43	33	20:09 (SAM_WT05)	21:31			22:03	23	21:30 (SAM_WT07)
18	08:41		16:29 (RHR_WT01)	07:54		17:33 (MXS_WT01)	06:55			06:46		19:36 (SAM_WT05)	05:52			05:29		21:07 (SAM_WT07)
	17:11	10	16:39 (RHR_WT01)	18:05	5	17:38 (MXS_WT01)	18:54			20:45	34	20:10 (SAM_WT05)	21:32			22:03	23	21:30 (SAM_WT07)
19	08:40		16:30 (RHR_WT01)	07:52		17:34 (MXS_WT01)	06:52			06:44		19:35 (SAM_WT05)	05:51			05:29		21:08 (SAM_WT07)
	17:12	11	16:41 (RHR_WT01)	18:07	6	17:40 (MXS_WT01)	18:55			20:46	35	20:10 (SAM_WT05)	21:34			22:04	22	21:30 (SAM_WT07)
20	08:39		16:29 (RHR_WT01)	07:50			06:50			06:42		19:35 (SAM_WT05)	05:49			05:29		21:08 (SAM_WT07)
	17:14	13	16:42 (RHR_WT01)	18:09			18:57			20:48	35	20:10 (SAM_WT05)	21:35			22:04	22	21:30 (SAM_WT07)
21	08:38		16:31 (RHR_WT01)	07:48			06:48			06:40		19:35 (SAM_WT05)	05:48			05:30		21:08 (SAM_WT07)
	17:16	13	16:44 (RHR_WT01)	18:10			18:59			20:50	34	20:09 (SAM_WT05)	21:37			22:04	22	21:30 (SAM_WT07)
22	08:37		16:32 (RHR_WT01)	07:46			06:46			06:38		19:35 (SAM_WT05)	05:47			05:30		21:08 (SAM_WT07)
	17:17	12	16:44 (RHR_WT01)	18:12			19:00			20:51	34	20:09 (SAM_WT05)	21:38			22:04	22	21:30 (SAM_WT07)
23	08:36		16:33 (RHR_WT01)	07:44			06:43			06:36		19:35 (SAM_WT05)	05:45			05:30		21:09 (SAM_WT07)
	17:19	11	16:44 (RHR_WT01)	18:14			19:02			20:53	34	20:09 (SAM_WT05)	21:39			22:05	22	21:31 (SAM_WT07)
24	08:35		16:35 (RHR_WT01)	07:42			06:41			06:34		19:35 (SAM_WT05)	05:44			05:30		21:08 (SAM_WT07)
	17:21	8	16:49 (RHR_WT03)	18:16			19:04			20:55	33	20:08 (SAM_WT05)	21:41			22:05	23	21:31 (SAM_WT07)
25	08:33		16:49 (RHR_WT03)	07:40			06:39		18:38 (KLZ_WT11)	06:32		19:35 (SAM_WT05)	05:43			05:31		21:08 (SAM_WT07)
	17:22	3	16:52 (RHR_WT03)	18:18			19:05	2	18:40 (KLZ_WT11)	20:56	32	20:07 (SAM_WT05)	21:42			22:05	23	21:31 (SAM_WT07)
26	08:32		16:50 (RHR_WT03)	07:38			06:37		18:40 (KLZ_WT11)	06:30		19:35 (SAM_WT05)	05:42			05:31		21:09 (SAM_WT07)
	17:24	4	16:54 (RHR_WT03)	18:19			19:07	2	18:42 (KLZ_WT11)	20:58	32	20:07 (SAM_WT05)	21:43			22:05	23	21:32 (SAM_WT07)
27	08:31		16:50 (RHR_WT03)	07:36			06:34			06:28		19:36 (SAM_WT05)	05:41			05:31		21:09 (SAM_WT07)
	17:26	5	16:55 (RHR_WT03)	18:21			19:09			21:00	30	20:06 (SAM_WT05)	21:44			22:05	22	21:31 (SAM_WT07)
28	08:29		16:51 (RHR_WT03)	07:34			06:32			06:26		19:36 (SAM_WT05)	05:40			05:32		21:10 (SAM_WT07)
	17:27	7	16:58 (RHR_WT03)	18:23			19:10			21:01	28	20:04 (SAM_WT05)	21:46			22:05	22	21:32 (SAM_WT07)
29	08:28		16:52 (RHR_WT03)				07:30		19:41 (CBR_WT01)	06:24		19:37 (SAM_WT05)	05:39			05:32		21:10 (SAM_WT07)
	17:29	7	16:59 (RHR_WT03)				20:12	5	19:46 (CBR_WT01)	21:03	26	20:03 (SAM_WT05)	21:47			22:04	21	21:31 (SAM_WT07)
30	08:27		16:55 (RHR_WT03)				07:28		19:37 (CBR_WT01)	06:22		19:39 (SAM_WT05)	05:38		21:12 (SAM_WT07)	05:33		21:10 (SAM_WT07)
	17:31	4	16:59 (RHR_WT03)				20:14	12	19:49 (CBR_WT01)	21:04	24	20:03 (SAM_WT05)	21:48	5	21:17 (SAM_WT07)	22:04	22	21:32 (SAM_WT07)
31	08:25						07:25		19:35 (CBR_WT01)				05:37		21:10 (SAM_WT07)			
	17:33						20:15	15	19:50 (CBR_WT01)				21:49	8	21:18 (SAM_WT07)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		140			25			36			837			64			596	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,69			0,61			0,59			0,58			0,55	
Total reduction		0,17			0,20			0,23			0,27			0,26			0,24	
Total, real		24			5			8			223			16			142	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		21:10 (SAM_WT07)	06:09			06:57		19:33 (CBR_WT01)	07:44			07:36			08:26		
	22:04	21	21:31 (SAM_WT07)	21:33			20:33	30	20:03 (SAM_WT05)	19:25			17:21			16:42		
2	05:34		21:11 (SAM_WT07)	06:10			06:58		19:31 (CBR_WT01)	07:46			07:38			08:27		
	22:04	20	21:31 (SAM_WT07)	21:32			20:31	30	20:01 (SAM_WT05)	19:23			17:19			16:41		
3	05:35		21:12 (SAM_WT07)	06:12			07:00		19:30 (CBR_WT01)	07:47			07:40		16:45 (ALB_WT01)	08:29		
	22:03	19	21:31 (SAM_WT07)	21:30			20:29	25	19:57 (SAM_WT05)	19:21			17:17	2	16:47 (ALB_WT01)	16:41		
4	05:36		21:12 (SAM_WT07)	06:13			07:02		19:28 (CBR_WT01)	07:49			07:42		16:43 (ALB_WT01)	08:30		
	22:03	19	21:31 (SAM_WT07)	21:28			20:26	19	19:47 (CBR_WT01)	19:18			17:16	3	16:46 (ALB_WT01)	16:40		
5	05:37		21:12 (SAM_WT07)	06:15			07:03		19:27 (CBR_WT01)	07:51			07:43		16:42 (ALB_WT01)	08:31		
	22:02	18	21:30 (SAM_WT07)	21:27			20:24	21	19:48 (CBR_WT01)	19:16			17:14	2	16:44 (ALB_WT01)	16:40		
6	05:37		21:13 (SAM_WT07)	06:16			07:05		19:26 (CBR_WT01)	07:52			07:45		16:42 (ALB_WT01)	08:32		
	22:02	17	21:30 (SAM_WT07)	21:25			20:22	21	19:47 (CBR_WT01)	19:14			17:12	1	16:43 (ALB_WT01)	16:39		
7	05:38		21:14 (SAM_WT07)	06:18			07:06		19:26 (CBR_WT01)	07:54			07:47			08:34		
	22:01	15	21:29 (SAM_WT07)	21:23			20:20	22	19:48 (CBR_WT01)	19:12			17:10			16:39		
8	05:39		21:14 (SAM_WT07)	06:19			07:08		19:25 (CBR_WT01)	07:56			07:49			08:35		
	22:01	15	21:29 (SAM_WT07)	21:22			20:17	22	19:47 (CBR_WT01)	19:10			17:09			16:39		
9	05:40		21:15 (SAM_WT07)	06:21		19:57 (SAM_WT05)	07:09		19:26 (CBR_WT01)	07:57			07:50			08:36		
	22:00	13	21:28 (SAM_WT07)	21:20	4	20:01 (SAM_WT05)	20:15	21	19:47 (CBR_WT01)	19:07			17:07			16:38		
10	05:41		21:16 (SAM_WT07)	06:23		19:53 (SAM_WT05)	07:11		19:25 (CBR_WT01)	07:59			07:52			08:37		
	21:59	12	21:28 (SAM_WT07)	21:18	13	20:06 (SAM_WT05)	20:13	20	19:45 (CBR_WT01)	19:05			17:06			16:38		
11	05:42		21:17 (SAM_WT07)	06:24		19:50 (SAM_WT05)	07:13		19:26 (CBR_WT01)	08:01			07:54			08:38		
	21:59	10	21:27 (SAM_WT07)	21:16	18	20:08 (SAM_WT05)	20:11	18	19:44 (CBR_WT01)	19:03			17:04			16:38		
12	05:43		21:18 (SAM_WT07)	06:26		19:49 (SAM_WT05)	07:14		19:26 (CBR_WT01)	08:02			07:55		16:26 (RHR_WT03)	08:39		
	21:58	9	21:27 (SAM_WT07)	21:14	21	20:10 (SAM_WT05)	20:08	16	19:42 (CBR_WT01)	19:01			17:03	4	16:30 (RHR_WT03)	16:38		
13	05:44		21:20 (SAM_WT07)	06:27		19:46 (SAM_WT05)	07:16		19:28 (CBR_WT01)	08:04			07:57		16:24 (RHR_WT03)	08:40		
	21:57	6	21:26 (SAM_WT07)	21:12	24	20:10 (SAM_WT05)	20:06	12	19:40 (CBR_WT01)	18:59			17:01	7	16:31 (RHR_WT03)	16:38		
14	05:45		21:23 (SAM_WT07)	06:29		19:46 (SAM_WT05)	07:17		19:30 (CBR_WT01)	08:06			07:59		16:23 (RHR_WT03)	08:41		
	21:56	2	21:25 (SAM_WT07)	21:10	26	20:12 (SAM_WT05)	20:04	7	19:37 (CBR_WT01)	18:57			17:00	6	16:29 (RHR_WT03)	16:38		
15	05:46			06:30		19:44 (SAM_WT05)	07:19			08:07			08:01		16:23 (RHR_WT03)	08:42		
	21:55			21:08	28	20:12 (SAM_WT05)	20:02			18:54			16:58	5	16:28 (RHR_WT03)	16:38		
16	05:47			06:32		19:43 (SAM_WT05)	07:20			08:09			08:02		16:23 (RHR_WT03)	08:43		
	21:54			21:07	30	20:13 (SAM_WT05)	19:59			18:52			16:57	4	16:27 (RHR_WT03)	16:38		
17	05:49			06:33		19:42 (SAM_WT05)	07:22		19:28 (KLZ_WT11)	08:11			08:04		16:22 (RHR_WT03)	08:44		
	21:53			21:05	31	20:13 (SAM_WT05)	19:57	3	19:31 (KLZ_WT11)	18:50			16:56	2	16:24 (RHR_WT03)	16:38		
18	05:50			06:35		19:42 (SAM_WT05)	07:24		19:26 (KLZ_WT11)	08:12			08:06		16:09 (RHR_WT01)	08:44		15:52 (RHR_WT02)
	21:52			21:03	32	20:14 (SAM_WT05)	19:55	2	19:28 (KLZ_WT11)	18:48			16:54	8	16:23 (RHR_WT03)	16:39	2	15:54 (RHR_WT02)
19	05:51			06:37		19:40 (SAM_WT05)	07:25		19:25 (KLZ_WT11)	08:14			08:07		16:07 (RHR_WT01)	08:45		15:53 (RHR_WT02)
	21:51			21:01	34	20:14 (SAM_WT05)	19:53	1	19:26 (KLZ_WT11)	18:46			16:53	11	16:18 (RHR_WT01)	16:39	2	15:55 (RHR_WT02)
20	05:52			06:38		19:40 (SAM_WT05)	07:27			08:16			08:09		16:07 (RHR_WT01)	08:46		15:52 (RHR_WT02)
	21:50			20:59	34	20:14 (SAM_WT05)	19:50			18:44			16:52	12	16:19 (RHR_WT01)	16:39	4	15:56 (RHR_WT02)
21	05:54			06:40		19:39 (SAM_WT05)	07:28			08:17			08:11		16:07 (RHR_WT01)	08:46		15:53 (RHR_WT02)
	21:49			20:56	35	20:14 (SAM_WT05)	19:48			18:42			16:51	13	16:20 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
22	05:55			06:41		19:39 (SAM_WT05)	07:30			08:19		18:07 (MXS_WT01)	08:12		16:06 (RHR_WT01)	08:47		15:53 (RHR_WT02)
	21:48			20:54	35	20:14 (SAM_WT05)	19:46			18:40	3	18:10 (MXS_WT01)	16:50	12	16:18 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
23	05:56			06:43		19:39 (SAM_WT05)	07:31			08:21		18:04 (MXS_WT01)	08:14		16:06 (RHR_WT01)	08:47		15:54 (RHR_WT02)
	21:46			20:52	34	20:13 (SAM_WT05)	19:43			18:38	6	18:10 (MXS_WT01)	16:49	11	16:17 (RHR_WT01)	16:41	4	15:58 (RHR_WT02)
24	05:58			06:44		19:39 (SAM_WT05)	07:33			08:22		18:03 (MXS_WT01)	08:15		16:06 (RHR_WT01)	08:48		15:54 (RHR_WT02)
	21:45			20:50	34	20:13 (SAM_WT05)	19:41			18:36	5	18:08 (MXS_WT01)	16:48	10	16:16 (RHR_WT01)	16:41	3	15:57 (RHR_WT02)
25	05:59			06:46		19:38 (SAM_WT05)	07:35			07:24		17:02 (MXS_WT01)	08:17		16:06 (RHR_WT01)	08:48		15:55 (RHR_WT02)
	21:44			20:48	34	20:12 (SAM_WT05)	19:39			17:34	3	17:05 (MXS_WT01)	16:47	9	16:15 (RHR_WT01)	16:42	2	15:57 (RHR_WT02)
26	06:00			06:47		19:39 (SAM_WT05)	07:36			07:26		17:01 (MXS_WT01)	08:18		16:06 (RHR_WT01)	08:49		
	21:42			20:46	33	20:12 (SAM_WT05)	19:37			17:32	2	17:03 (MXS_WT01)	16:46	8	16:14 (RHR_WT01)	16:43		
27	06:02			06:49		19:39 (SAM_WT05)	07:38			07:28			08:20		16:07 (RHR_WT01)	08:49		
	21:41			20:44	32	20:11 (SAM_WT05)	19:34			17:30			16:45	6	16:13 (RHR_WT01)	16:43		
28	06:03			06:51		19:39 (SAM_WT05)	07:39			07:29			08:21		16:07 (RHR_WT01)	08:49		
	21:39			20:42	30	20:09 (SAM_WT05)	19:32			17:28			16:44	5	16:12 (RHR_WT01)	16:44		
29	06:05			06:52		19:40 (SAM_WT05)	07:41			07:31			08:23		16:08 (RHR_WT01)	08:49		
	21:38			20:40	29	20:09 (SAM_WT05)	19:30			17:26			16:43	3	16:11 (RHR_WT01)	16:45		
30	06:06		21:06 (KLZ_WT20)	06:54		19:40 (SAM_WT05)	07:43			07:33			08:24		16:09 (RHR_WT01)	08:49		
	21:37	1	21:07 (KLZ_WT20)	20:37	27	20:07 (SAM_WT05)	19:27			17:24			16:43	2	16:11 (RHR_WT01)	16:46		
31	06:07		21:05 (KLZ_WT20)	06:55		19:38 (CBR_WT01)				07:35						08:49		
	21:35	1	21:06 (KLZ_WT20)	20:35	26	20:05 (SAM_WT05)				17:23						16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case		198			644			290			19			146			25	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,55			0,58			0,61			0,68			0,71			0,72	
Total reduction		0,24			0,27			0,26			0,24			0,19			0,16	
Total, real		48			171			74			5			27			4	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21			06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19			21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21			07:28			07:19			06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38			18:28			20:20			21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19			07:26			07:17			06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40			18:30			20:22			21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18			07:24			07:14			06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42			18:32			20:24			21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16			07:21			07:12			06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44			18:33			20:25			21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14			07:19			07:10			06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45			18:35			20:27			21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		20:01 (KLZ_WT15)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	2	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		20:01 (KLZ_WT15)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	4	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		20:02 (KLZ_WT15)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	4	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		20:03 (KLZ_WT15)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	5	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		20:04 (KLZ_WT15)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	3	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57			05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37			21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55			05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38			21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52			05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40			21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50			05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42			21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48			05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43			21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46			05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45			21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44			05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47			21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	302			7			138			56			763			1138		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,54			0,54			0,63			0,64			0,67			0,58		
Total reduction	0,13			0,16			0,23			0,29			0,30			0,25		
Total, real	39			1			32			16			226			286		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		20:01 (KLZ_WT15)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	6	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		20:00 (KLZ_WT15)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	4	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:59 (KLZ_WT15)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	4	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:58 (KLZ_WT15)	07:49	07:42			08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	2	20:00 (KLZ_WT15)	19:19	17:16			16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03			07:51	07:43			08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24			19:16	17:14			16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05			07:52	07:45			08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22			19:14	17:12			16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06			07:54	07:47			08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20			19:12	17:11			16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08			07:56	07:49			08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18			19:10	17:09			16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10			07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15			19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11			07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13			19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44			07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50			19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46			07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48			19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48			07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46			19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49			07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44			19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51			07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42			19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52			07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40			19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54			07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38			19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		20:04 (KLZ_WT15)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	3	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			363			156				312		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,97			0,97			0,97				0,97		
Wind dir. red.		0,62			0,67			0,62				0,54		
Total reduction		0,27			0,31			0,26				0,14		
Total, real		221			111			41				44		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	29	09:28 (RHR_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	34	06:40 (CBR_WT01)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	29	09:27 (RHR_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	34	06:41 (CBR_WT01)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	28	09:26 (RHR_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	34	06:40 (CBR_WT01)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	25	09:25 (RHR_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	36	06:40 (CBR_WT01)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	17	09:22 (RHR_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	36	06:41 (CBR_WT01)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	4	08:53 (MVZ_WT02)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	37	06:41 (CBR_WT01)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	37	06:41 (CBR_WT01)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	37	06:42 (CBR_WT01)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	36	06:41 (CBR_WT01)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	38	06:42 (CBR_WT01)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	37	06:42 (CBR_WT01)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	36	06:41 (CBR_WT01)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	37	06:42 (CBR_WT01)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	35	06:42 (CBR_WT01)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	35	06:42 (CBR_WT01)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	35	06:43 (CBR_WT01)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	34	06:43 (CBR_WT01)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	33	06:43 (CBR_WT01)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	33	06:44 (CBR_WT01)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	33	06:45 (CBR_WT01)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	24	06:37 (CBR_WT01)	22:05	34	06:45 (CBR_WT01)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	26	06:38 (CBR_WT01)	22:05	34	06:44 (CBR_WT01)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	27	09:30 (RHR_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	28	06:38 (CBR_WT01)	22:05	35	06:45 (CBR_WT01)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	27	09:29 (RHR_WT01)				20:12			21:03			21:47	29	06:39 (CBR_WT01)	22:05	35	06:46 (CBR_WT01)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	27	09:29 (RHR_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	31	06:40 (CBR_WT01)	22:04	37	06:46 (CBR_WT01)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	28	09:28 (RHR_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	32	06:40 (CBR_WT01)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		559			284			328			86			595			1047	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,55			0,55			0,61			0,67			0,70	
Total reduction		0,13			0,16			0,20			0,27			0,30			0,30	
Total, real		73			46			67			24			176			317	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	37	06:46 (CBR_WT01)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MXS_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	38	06:46 (CBR_WT01)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MXS_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	37	06:46 (CBR_WT01)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MXS_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42			08:30		09:21 (RHR_WT02)
	22:03	37	06:47 (CBR_WT01)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MXS_WT01)	17:16			16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	36	06:46 (CBR_WT01)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MXS_WT01)	17:14	5	08:23 (MVZ_WT02)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	37	06:47 (CBR_WT01)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MXS_WT01)	17:12	18	08:52 (RHR_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	36	06:47 (CBR_WT01)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MXS_WT01)	17:11	25	08:55 (RHR_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	35	06:47 (CBR_WT01)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	28	08:57 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	29	08:58 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	29	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	33	06:48 (CBR_WT01)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	28	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	32	06:48 (CBR_WT01)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	28	09:00 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	32	06:48 (CBR_WT01)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	26	09:01 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	31	06:48 (CBR_WT01)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	26	09:01 (RHR_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	29	06:48 (CBR_WT01)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MVS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	27	06:48 (CBR_WT01)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	25	06:47 (CBR_WT01)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	23	06:47 (CBR_WT01)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		791			222			109			468			526			582	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,64			0,60			0,55			0,54			0,54	
Total reduction		0,30			0,29			0,25			0,20			0,14			0,12	
Total, real		239			65			28			91			74			69	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:16 (KLZ_WT10)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	40	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:17 (KLZ_WT10)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	40	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:16 (KLZ_WT10)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	41	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:16 (KLZ_WT10)
	16:51	39	10:21 (ALB_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	42	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:17 (KLZ_WT10)
	16:53	35	10:20 (ALB_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	41	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:36 (KLZ_WT11)	05:33		06:17 (KLZ_WT10)
	16:54	33	10:19 (ALB_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	23	07:00 (CBR_WT01)	21:56	40	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:34 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:55	27	10:17 (ALB_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	26	07:00 (CBR_WT01)	21:56	41	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:32 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:56	25	09:51 (RHR_WT03)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	27	06:59 (CBR_WT01)	21:57	42	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:31 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:58	25	09:52 (RHR_WT03)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	28	06:59 (CBR_WT01)	21:58	43	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:59	24	09:51 (RHR_WT03)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	29	06:58 (CBR_WT01)	21:59	43	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	17:00	24	09:51 (RHR_WT03)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	29	06:58 (CBR_WT01)	22:00	42	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	26	09:51 (RHR_WT03)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	29	06:56 (CBR_WT01)	22:00	43	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	26	09:52 (RHR_WT03)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	29	06:56 (CBR_WT01)	22:01	44	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	27	09:52 (RHR_WT03)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	25	06:53 (CBR_WT01)	22:01	43	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	28	09:51 (RHR_WT03)	18:00			18:49			20:40			21:28	20	06:51 (CBR_WT01)	22:02	42	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	28	09:51 (RHR_WT03)	18:02			18:50			20:42			21:30	15	06:40 (KLZ_WT11)	22:03	44	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	27	09:50 (RHR_WT03)	18:04			18:52			20:43			21:31	15	06:39 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	26	09:49 (RHR_WT03)	18:05			18:54			20:45			21:33	11	06:37 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	25	09:48 (RHR_WT03)	18:07			18:55			20:47			21:34	12	06:29 (KLZ_WT10)	22:04	42	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	21	09:46 (RHR_WT03)	18:09			18:57			20:48			21:35	10	06:30 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	16	09:21 (RHR_WT02)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	13	06:32 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	16	09:21 (RHR_WT02)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	18	21:07 (KLZ_WT15)	22:05	43	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:19	16	09:22 (RHR_WT02)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	22	21:09 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	14	09:20 (RHR_WT02)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	26	21:10 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	28	21:11 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	30	21:12 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	33	21:13 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	34	21:14 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	36	21:16 (KLZ_WT15)	22:05	43	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	37	21:17 (KLZ_WT15)	22:04	43	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:16 (KLZ_WT10)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	38	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	685			250			158			316			732			1266		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,54			0,55			0,57			0,62			0,66			0,62		
Total reduction	0,13			0,16			0,21			0,28			0,30			0,27		
Total, real	89			41			33			89			216			341		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:38 (KLZ_WT11)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	43	21:27 (KLZ_WT15)	21:34	29	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	24	09:33 (RHR_WT03)
2	05:35		06:04 (SAM_WT07)	06:11		06:39 (KLZ_WT11)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	43	21:27 (KLZ_WT15)	21:32	29	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	24	09:34 (RHR_WT03)
3	05:35		06:05 (SAM_WT07)	06:12		06:40 (KLZ_WT11)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	41	21:27 (KLZ_WT15)	21:30	29	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	25	09:35 (RHR_WT03)
4	05:36		06:06 (SAM_WT07)	06:14		06:41 (KLZ_WT11)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	42	21:28 (KLZ_WT15)	21:29	28	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
5	05:37		06:07 (SAM_WT07)	06:15		06:43 (KLZ_WT11)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	41	21:28 (KLZ_WT15)	21:27	26	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
6	05:38		06:23 (KLZ_WT10)	06:17		06:44 (KLZ_WT11)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:25	25	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	32	10:05 (ALB_WT01)
7	05:38		06:24 (KLZ_WT10)	06:18		06:46 (KLZ_WT11)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:24	21	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	35	10:07 (ALB_WT01)
8	05:39		06:24 (KLZ_WT10)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	40	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	38	10:09 (ALB_WT01)
9	05:40		06:24 (KLZ_WT10)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:24 (KLZ_WT10)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:24 (KLZ_WT10)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	39	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:24 (KLZ_WT10)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	40	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:24 (KLZ_WT10)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	39	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:24 (KLZ_WT10)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	37	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:25 (KLZ_WT10)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	35	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:25 (KLZ_WT10)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	33	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:25 (KLZ_WT10)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	32	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	29	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	14	08:54 (RHR_WT02)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	28	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	16	08:56 (RHR_WT02)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	24	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	16	08:56 (RHR_WT02)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	21	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	16	08:57 (RHR_WT02)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	16	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	21	09:22 (RHR_WT03)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	12	06:41 (KLZ_WT10)	20:53			19:44			18:38			16:49	25	09:24 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	11	06:40 (KLZ_WT10)	20:50			19:41			18:36			16:48	26	09:26 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	11	06:46 (KLZ_WT11)	20:48			19:39			17:34			16:47	27	09:28 (RHR_WT03)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	13	06:49 (KLZ_WT11)	20:46			19:37			17:32			16:46	27	09:29 (RHR_WT03)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	16	06:50 (KLZ_WT11)	20:44			19:34			17:30			16:45	27	09:30 (RHR_WT03)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	16	06:51 (KLZ_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	24	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	29	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	26	09:33 (RHR_WT03)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	29	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		948			362			263			245			462			1235	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,64			0,67			0,61			0,56			0,54			0,54	
Total reduction		0,28			0,30			0,26			0,20			0,14			0,12	
Total, real		265			110			68			49			65			147	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (ATS_WT01)	08:24			07:32		07:59 (ALB_WT01)	07:23			06:20		06:48 (KLZ_WT16)	05:37		06:40 (KLZ_WT16)
	16:48	8	09:40 (ATS_WT01)	17:35			18:25	5	08:04 (ALB_WT01)	20:17			21:06	12	07:00 (KLZ_WT16)	21:51	27	07:07 (KLZ_WT16)
2	08:50		09:33 (ATS_WT01)	08:23			07:30			07:21			06:18		06:45 (KLZ_WT16)	05:36		06:41 (KLZ_WT16)
	16:49	7	09:40 (ATS_WT01)	17:37			18:27			20:19			21:08	18	07:03 (KLZ_WT16)	21:52	26	07:07 (KLZ_WT16)
3	08:49		09:35 (ATS_WT01)	08:21			07:28			07:19			06:17		06:44 (KLZ_WT16)	05:35		06:41 (KLZ_WT16)
	16:50	4	09:39 (ATS_WT01)	17:38			18:28			20:20			21:10	21	07:05 (KLZ_WT16)	21:53	25	07:06 (KLZ_WT16)
4	08:49			08:19			07:26			07:17			06:15		06:42 (KLZ_WT16)	05:34		06:43 (KLZ_WT16)
	16:52			17:40			18:30			20:22			21:11	24	07:06 (KLZ_WT16)	21:54	24	07:07 (KLZ_WT16)
5	08:49			08:18			07:24			07:14			06:13		06:40 (KLZ_WT16)	05:34		06:43 (KLZ_WT16)
	16:53			17:42			18:32			20:24			21:13	27	07:07 (KLZ_WT16)	21:55	23	07:06 (KLZ_WT16)
6	08:49			08:16			07:22		07:44 (RHR_WT01)	07:12			06:11		06:40 (KLZ_WT16)	05:33		06:44 (KLZ_WT16)
	16:54			17:44			18:34	1	07:45 (RHR_WT01)	20:25			21:14	28	07:08 (KLZ_WT16)	21:56	22	07:06 (KLZ_WT16)
7	08:48			08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		06:34 (SAM_WT07)	05:33		06:44 (KLZ_WT16)
	16:55			17:46			18:35	2	07:44 (RHR_WT01)	20:27			21:16	32	07:09 (KLZ_WT16)	21:56	21	07:05 (KLZ_WT16)
8	08:48			08:13			07:17		07:40 (RHR_WT01)	07:08			06:08		06:32 (SAM_WT07)	05:32		06:45 (KLZ_WT16)
	16:56			17:47			18:37	2	07:42 (RHR_WT01)	20:29			21:18	33	07:09 (KLZ_WT16)	21:57	20	07:05 (KLZ_WT16)
9	08:48			08:11			07:15			07:06			06:06		06:37 (KLZ_WT16)	05:32		06:46 (KLZ_WT16)
	16:58			17:49			18:39			20:30			21:19	33	07:10 (KLZ_WT16)	21:58	18	07:04 (KLZ_WT16)
10	08:47			08:09			07:13			07:03			06:04		06:36 (KLZ_WT16)	05:31		06:47 (KLZ_WT16)
	16:59			17:51			18:40			20:32			21:21	34	07:10 (KLZ_WT16)	21:59	17	07:04 (KLZ_WT16)
11	08:46			08:08			07:11			07:01			06:03		06:36 (KLZ_WT16)	05:31		06:48 (KLZ_WT16)
	17:00			17:53			18:42			20:34			21:22	35	07:11 (KLZ_WT16)	22:00	16	07:04 (KLZ_WT16)
12	08:46			08:06			07:08		07:31 (MVN_WT01)	06:59			06:01		06:35 (KLZ_WT16)	05:30		06:49 (KLZ_WT16)
	17:02			17:55			18:44	1	07:32 (MVN_WT01)	20:35			21:24	36	07:11 (KLZ_WT16)	22:00	14	07:03 (KLZ_WT16)
13	08:45			08:04			07:06			06:57			06:00		06:35 (KLZ_WT16)	05:30		06:49 (KLZ_WT16)
	17:03			17:56			18:45			20:37			21:25	36	07:11 (KLZ_WT16)	22:01	13	07:02 (KLZ_WT16)
14	08:45			08:02			07:04			06:55			05:58		06:34 (KLZ_WT16)	05:30		06:50 (KLZ_WT16)
	17:05			17:58			18:47			20:39			21:27	37	07:11 (KLZ_WT16)	22:02	12	07:02 (KLZ_WT16)
15	08:44			08:00			07:02			06:53			05:57		06:34 (KLZ_WT16)	05:30		06:50 (KLZ_WT16)
	17:06			18:00			18:49			20:40			21:28	37	07:11 (KLZ_WT16)	22:02	12	07:02 (KLZ_WT16)
16	08:43			07:58			06:59			06:50		07:13 (KLZ_WT08)	05:55		06:35 (KLZ_WT16)	05:30		06:51 (KLZ_WT16)
	17:08			18:02			18:51			20:42	2	07:15 (KLZ_WT08)	21:30	37	07:12 (KLZ_WT16)	22:03	10	07:01 (KLZ_WT16)
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT08)	05:54		06:34 (KLZ_WT16)	05:30		06:52 (KLZ_WT16)
	17:09			18:04			18:52			20:43	4	07:15 (KLZ_WT08)	21:31	37	07:11 (KLZ_WT16)	22:03	9	07:01 (KLZ_WT16)
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT08)	05:52		06:34 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:11			18:05			18:54			20:45	5	07:14 (KLZ_WT08)	21:33	37	07:11 (KLZ_WT16)	22:03	8	07:01 (KLZ_WT16)
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT08)	05:51		06:35 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:13			18:07			18:56			20:47	6	07:13 (KLZ_WT08)	21:34	36	07:11 (KLZ_WT16)	22:04	7	07:00 (KLZ_WT16)
20	08:39			07:51			06:50			06:42		07:05 (CBR_WT01)	05:50		06:35 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:14			18:09			18:57			20:48	6	07:11 (KLZ_WT08)	21:35	37	07:12 (KLZ_WT16)	22:04	7	07:00 (KLZ_WT16)
21	08:38			07:49			06:48			06:40			05:48		06:35 (KLZ_WT16)	05:30		06:54 (KLZ_WT16)
	17:16			18:11			18:59			20:50			21:37	37	07:12 (KLZ_WT16)	22:04	7	07:01 (KLZ_WT16)
22	08:37			07:47			06:46			06:38			05:47		06:35 (KLZ_WT16)	05:30		06:54 (KLZ_WT16)
	17:17			18:13			19:01			20:52			21:38	35	07:10 (KLZ_WT16)	22:05	7	07:01 (KLZ_WT16)
23	08:36			07:45			06:44			06:36			05:46		06:35 (KLZ_WT16)	05:30		06:54 (KLZ_WT16)
	17:19			18:14			19:02			20:53			21:40	35	07:10 (KLZ_WT16)	22:05	7	07:01 (KLZ_WT16)
24	08:35			07:43		08:06 (ALB_WT01)	06:41			06:34			05:45		06:36 (KLZ_WT16)	05:31		06:54 (KLZ_WT16)
	17:21			18:16	2	08:08 (ALB_WT01)	19:04			20:55			21:41	34	07:10 (KLZ_WT16)	22:05	8	07:02 (KLZ_WT16)
25	08:34			07:41		08:04 (ALB_WT01)	06:39			06:32			05:43		06:36 (KLZ_WT16)	05:31		06:54 (KLZ_WT16)
	17:23			18:18	4	08:08 (ALB_WT01)	19:06			20:57			21:42	34	07:10 (KLZ_WT16)	22:05	9	07:03 (KLZ_WT16)
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30			05:42		06:36 (KLZ_WT16)	05:31		06:54 (KLZ_WT16)
	17:24			18:20	6	08:08 (ALB_WT01)	19:07			20:58			21:43	33	07:09 (KLZ_WT16)	22:05	9	07:03 (KLZ_WT16)
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28			05:41		06:37 (KLZ_WT16)	05:32		06:54 (KLZ_WT16)
	17:26			18:21	8	08:08 (ALB_WT01)	19:09			21:00			21:45	32	07:09 (KLZ_WT16)	22:05	10	07:04 (KLZ_WT16)
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26			05:40		06:38 (KLZ_WT16)	05:32		06:53 (KLZ_WT16)
	17:28			18:23	9	08:06 (ALB_WT01)	19:11			21:01			21:46	32	07:10 (KLZ_WT16)	22:05	12	07:05 (KLZ_WT16)
29	08:28						07:30			06:24			05:39		06:39 (KLZ_WT16)	05:33		06:53 (KLZ_WT16)
	17:29						20:12			21:03			21:47	30	07:09 (KLZ_WT16)	22:05	13	07:06 (KLZ_WT16)
30	08:27						07:28			06:22			05:38		06:39 (KLZ_WT16)	05:33		06:52 (KLZ_WT16)
	17:31						20:14			21:05			21:48	29	07:08 (KLZ_WT16)	22:04	14	07:06 (KLZ_WT16)
31	08:26						07:26						05:37		06:39 (KLZ_WT16)			
	17:33						20:15						21:49	29	07:08 (KLZ_WT16)			
Potential sun hours	262			279			367			414			482			494		
Total, worst case		19			29			11			23			987			427	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,55			0,56			0,64			0,68			0,68	
Total reduction		0,13			0,16			0,21			0,29			0,30			0,29	
Total, real		2			5			2			7			297			125	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September	October			November	December		
1	05:34		06:52 (KLZ_WT16)	06:09		06:45 (KLZ_WT16)	06:57	07:45			07:37	08:26		
	22:04	15	07:07 (KLZ_WT16)	21:34	36	07:21 (KLZ_WT16)	20:33	19:26			17:21	16:42		
2	05:35		06:51 (KLZ_WT16)	06:11		06:46 (KLZ_WT16)	06:59	07:46		08:11 (MVN_WT01)	07:38	08:27		
	22:04	17	07:08 (KLZ_WT16)	21:32	35	07:21 (KLZ_WT16)	20:31	19:23	1	08:12 (MVN_WT01)	17:19	16:42		
3	05:35		06:51 (KLZ_WT16)	06:12		06:46 (KLZ_WT16)	07:00	07:48			07:40	08:29		
	22:04	18	07:09 (KLZ_WT16)	21:30	34	07:20 (KLZ_WT16)	20:29	19:21			17:18	16:41		
4	05:36		06:51 (KLZ_WT16)	06:14		06:47 (KLZ_WT16)	07:02	07:49			07:42	08:30		
	22:03	19	07:10 (KLZ_WT16)	21:29	33	07:20 (KLZ_WT16)	20:27	19:19			17:16	16:41		
5	05:37		06:51 (KLZ_WT16)	06:15		06:43 (SAM_WT07)	07:04	07:51			07:44	08:31		
	22:03	20	07:11 (KLZ_WT16)	21:27	32	07:19 (KLZ_WT16)	20:24	19:17			17:14	16:40		
6	05:38		06:50 (KLZ_WT16)	06:17		06:44 (SAM_WT07)	07:05	07:53		08:17 (RHR_WT01)	07:45	08:33		
	22:02	21	07:11 (KLZ_WT16)	21:25	31	07:18 (KLZ_WT16)	20:22	19:14	2	08:19 (RHR_WT01)	17:12	16:40		
7	05:39		06:49 (KLZ_WT16)	06:18		06:49 (KLZ_WT16)	07:07	07:54		08:19 (RHR_WT01)	07:47	08:34		
	22:02	23	07:12 (KLZ_WT16)	21:24	29	07:18 (KLZ_WT16)	20:20	19:12	2	08:21 (RHR_WT01)	17:11	16:39		
8	05:39		06:49 (KLZ_WT16)	06:20		06:50 (KLZ_WT16)	07:08	07:56			07:49	08:35		
	22:01	24	07:13 (KLZ_WT16)	21:22	26	07:16 (KLZ_WT16)	20:18	19:10			17:09	16:39		
9	05:40		06:49 (KLZ_WT16)	06:21		06:52 (KLZ_WT16)	07:10	07:58			07:51	08:36		09:23 (ATS_WT01)
	22:00	25	07:14 (KLZ_WT16)	21:20	23	07:15 (KLZ_WT16)	20:16	19:08			17:08	16:39	4	09:27 (ATS_WT01)
10	05:41		06:49 (KLZ_WT16)	06:23		06:53 (KLZ_WT16)	07:11	07:59			07:52	08:37		09:22 (ATS_WT01)
	22:00	25	07:14 (KLZ_WT16)	21:18	20	07:13 (KLZ_WT16)	20:13	19:06			17:06	16:38	7	09:29 (ATS_WT01)
11	05:42		06:48 (KLZ_WT16)	06:24		06:55 (KLZ_WT16)	07:13	08:01			07:54	08:38		09:22 (ATS_WT01)
	21:59	27	07:15 (KLZ_WT16)	21:16	17	07:12 (KLZ_WT16)	20:11	19:03			17:04	16:38	8	09:30 (ATS_WT01)
12	05:43		06:48 (KLZ_WT16)	06:26		06:58 (KLZ_WT16)	07:14	08:03			07:56	08:39		09:22 (ATS_WT01)
	21:58	28	07:16 (KLZ_WT16)	21:14	10	07:08 (KLZ_WT16)	20:09	19:01			17:03	16:38	9	09:31 (ATS_WT01)
13	05:44		06:48 (KLZ_WT16)	06:27			07:16	08:04		08:32 (ALB_WT01)	07:57	08:40		09:22 (ATS_WT01)
	21:57	29	07:17 (KLZ_WT16)	21:13			20:06	18:59	6	08:38 (ALB_WT01)	17:02	16:38	10	09:32 (ATS_WT01)
14	05:46		06:47 (KLZ_WT16)	06:29			07:18	08:06		08:31 (ALB_WT01)	07:59	08:41		09:22 (ATS_WT01)
	21:56	30	07:17 (KLZ_WT16)	21:11			20:04	18:57	8	08:39 (ALB_WT01)	17:00	16:38	10	09:32 (ATS_WT01)
15	05:47		06:47 (KLZ_WT16)	06:31			07:19	08:07		08:33 (ALB_WT01)	08:01	08:42		09:22 (ATS_WT01)
	21:56	31	07:18 (KLZ_WT16)	21:09			20:02	18:55	7	08:40 (ALB_WT01)	16:59	16:38	11	09:33 (ATS_WT01)
16	05:48		06:47 (KLZ_WT16)	06:32			07:21	08:09		08:35 (ALB_WT01)	08:03	08:43		09:23 (ATS_WT01)
	21:55	31	07:18 (KLZ_WT16)	21:07			20:00	18:53	6	08:41 (ALB_WT01)	16:57	16:38	11	09:34 (ATS_WT01)
17	05:49		06:46 (KLZ_WT16)	06:34			07:22	08:11		08:36 (ALB_WT01)	08:04	08:44		09:23 (ATS_WT01)
	21:54	33	07:19 (KLZ_WT16)	21:05			19:57	18:51	3	08:39 (ALB_WT01)	16:56	16:39	12	09:35 (ATS_WT01)
18	05:50		06:46 (KLZ_WT16)	06:35			07:24	08:13		08:38 (ALB_WT01)	08:06	08:45		09:23 (ATS_WT01)
	21:53	33	07:19 (KLZ_WT16)	21:03			19:55	18:48	1	08:39 (ALB_WT01)	16:55	16:39	12	09:35 (ATS_WT01)
19	05:51		06:46 (KLZ_WT16)	06:37			07:25	08:14			08:08	08:45		09:24 (ATS_WT01)
	21:51	34	07:20 (KLZ_WT16)	21:01			19:53	18:46			16:54	16:39	12	09:36 (ATS_WT01)
20	05:53		06:46 (KLZ_WT16)	06:38			07:27	08:16			08:09	08:46		09:24 (ATS_WT01)
	21:50	35	07:21 (KLZ_WT16)	20:59			19:51	18:44			16:52	16:40	13	09:37 (ATS_WT01)
21	05:54		06:46 (KLZ_WT16)	06:40			07:29	08:18			08:11	08:47		09:24 (ATS_WT01)
	21:49	35	07:21 (KLZ_WT16)	20:57			19:48	18:42			16:51	16:40	13	09:37 (ATS_WT01)
22	05:55		06:45 (KLZ_WT16)	06:42			07:30	08:19			08:12	08:47		09:25 (ATS_WT01)
	21:48	36	07:21 (KLZ_WT16)	20:55			19:46	18:40			16:50	16:40	13	09:38 (ATS_WT01)
23	05:57		06:45 (KLZ_WT16)	06:43		07:09 (CBR_WT01)	07:32	08:21			08:14	08:48		09:25 (ATS_WT01)
	21:47	36	07:21 (KLZ_WT16)	20:53	6	07:15 (KLZ_WT08)	19:44	18:38			16:49	16:41	13	09:38 (ATS_WT01)
24	05:58		06:45 (KLZ_WT16)	06:45		07:11 (KLZ_WT08)	07:33	08:23			08:16	08:48		09:26 (ATS_WT01)
	21:45	37	07:22 (KLZ_WT16)	20:51	6	07:17 (KLZ_WT08)	19:41	18:36			16:48	16:42	12	09:38 (ATS_WT01)
25	05:59		06:45 (KLZ_WT16)	06:46		07:12 (KLZ_WT08)	07:35	07:24			08:17	08:48		09:27 (ATS_WT01)
	21:44	37	07:22 (KLZ_WT16)	20:48	5	07:17 (KLZ_WT08)	19:39	17:34			16:47	16:42	12	09:39 (ATS_WT01)
26	06:01		06:45 (KLZ_WT16)	06:48		07:14 (KLZ_WT08)	07:37	07:26			08:19	08:49		09:27 (ATS_WT01)
	21:43	37	07:22 (KLZ_WT16)	20:46	4	07:18 (KLZ_WT08)	19:37	17:32			16:46	16:43	12	09:39 (ATS_WT01)
27	06:02		06:45 (KLZ_WT16)	06:49		07:15 (KLZ_WT08)	07:38	07:28			08:20	08:49		09:28 (ATS_WT01)
	21:41	38	07:23 (KLZ_WT16)	20:44	2	07:17 (KLZ_WT08)	19:35	17:30			16:45	16:44	11	09:39 (ATS_WT01)
28	06:03		06:45 (KLZ_WT16)	06:51			07:40	07:30			08:22	08:49		09:28 (ATS_WT01)
	21:40	37	07:22 (KLZ_WT16)	20:42			19:32	17:29			16:44	16:44	11	09:39 (ATS_WT01)
29	06:05		06:45 (KLZ_WT16)	06:53			07:41	07:31			08:23	08:49		09:29 (ATS_WT01)
	21:38	37	07:22 (KLZ_WT16)	20:40			19:30	17:27			16:44	16:45	10	09:39 (ATS_WT01)
30	06:06		06:46 (KLZ_WT16)	06:54			07:43	07:33			08:25	08:50		09:29 (ATS_WT01)
	21:37	36	07:22 (KLZ_WT16)	20:38			19:28	17:25			16:43	16:46	11	09:40 (ATS_WT01)
31	06:08		06:46 (KLZ_WT16)	06:56				07:35				08:50		09:30 (ATS_WT01)
	21:35	36	07:22 (KLZ_WT16)	20:36				17:23				16:47	10	09:40 (ATS_WT01)
Potential sun hours	498			451			380	333			269	248		
Total, worst case		920			349				36				247	
Sun reduction		0,45			0,47				0,36				0,23	
Oper. time red.		0,97			0,97				0,97				0,97	
Wind dir. red.		0,68			0,67				0,55				0,53	
Total reduction		0,30			0,31				0,20				0,12	
Total, real		272			107				7				29	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (CBR_WT01)	06:20		06:44 (SAM_WT06)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	6	07:52 (CBR_WT01)	21:06	42	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:44 (CBR_WT01)	06:18		06:42 (SAM_WT06)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	6	07:50 (CBR_WT01)	21:08	42	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19			06:17		07:07 (KLZ_WT15)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20			21:10	40	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17			06:15		07:07 (KLZ_WT15)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22			21:11	39	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14			06:13		07:07 (KLZ_WT15)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24			21:13	38	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12			06:11		07:07 (KLZ_WT15)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25			21:14	38	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10			06:09		07:07 (KLZ_WT15)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27			21:16	37	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08			06:08		07:08 (KLZ_WT15)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29			21:18	35	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06			06:06		07:09 (KLZ_WT15)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30			21:19	34	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03			06:04		07:09 (KLZ_WT15)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32			21:21	33	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46			06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01			20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44			06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02			20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41			06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04			20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39			06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06			20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37			06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07			20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35			06:28		07:07 (KLZ_WT15)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09			21:00	40	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32			06:26		07:08 (KLZ_WT15)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11			21:01	40	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (CBR_WT01)	06:24		07:07 (KLZ_WT15)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	1	07:53 (CBR_WT01)	21:03	41	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (CBR_WT01)	06:22		07:07 (KLZ_WT15)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	3	07:53 (CBR_WT01)	21:05	40	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (CBR_WT01)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	5	07:53 (CBR_WT01)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		156			655			35			496			555			20	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,55			0,55			0,60			0,64			0,64			0,71	
Total reduction		0,13			0,16			0,22			0,29			0,29			0,31	
Total, real		21			105			8			144			159			6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December
1	05:34		06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1	06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35		06:04 (KLZ_WT17)	06:11		07:20 (KLZ_WT15)	06:59			07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1	06:05 (KLZ_WT17)	21:32	32	07:52 (KLZ_WT15)	20:31			19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35			06:12		07:19 (KLZ_WT15)	07:00			07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04			21:30	33	07:52 (KLZ_WT15)	20:29			19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36			06:14		07:19 (KLZ_WT15)	07:02			07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03			21:29	35	07:54 (KLZ_WT15)	20:27			19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37			06:15		07:18 (KLZ_WT15)	07:03			07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03			21:27	36	07:54 (KLZ_WT15)	20:24			19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38			06:17		07:17 (KLZ_WT15)	07:05			07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02			21:25	37	07:54 (KLZ_WT15)	20:22			19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38			06:18		07:17 (KLZ_WT15)	07:07			07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02			21:24	38	07:55 (KLZ_WT15)	20:20			19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39			06:20		07:16 (KLZ_WT15)	07:08			07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01			21:22	39	07:55 (KLZ_WT15)	20:18			19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40			06:21		07:16 (KLZ_WT15)	07:10			07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00			21:20	40	07:56 (KLZ_WT15)	20:16			19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41			06:23		07:15 (KLZ_WT15)	07:11		07:37 (CBR_WT01)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00			21:18	40	07:55 (KLZ_WT15)	20:13	6	07:43 (CBR_WT01)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42			06:24		06:52 (SAM_WT06)	07:13		07:38 (CBR_WT01)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59			21:16	42	07:56 (KLZ_WT15)	20:11	6	07:44 (CBR_WT01)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43			06:26		06:53 (SAM_WT06)	07:14		07:39 (CBR_WT01)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58			21:15	41	07:55 (KLZ_WT15)	20:09	5	07:44 (CBR_WT01)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44			06:27		07:14 (KLZ_WT15)	07:16		07:41 (CBR_WT01)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57			21:13	41	07:55 (KLZ_WT15)	20:06	4	07:45 (CBR_WT01)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45			06:29		07:15 (KLZ_WT15)	07:18		07:42 (CBR_WT01)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57			21:11	40	07:55 (KLZ_WT15)	20:04	2	07:44 (CBR_WT01)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47			06:31		07:14 (KLZ_WT15)	07:19			08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56			21:09	40	07:54 (KLZ_WT15)	20:02			18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48			06:32		07:15 (KLZ_WT15)	07:21			08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55			21:07	39	07:54 (KLZ_WT15)	20:00			18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49			06:34		07:15 (KLZ_WT15)	07:22			08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54			21:05	38	07:53 (KLZ_WT15)	19:57			18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50			06:35		07:16 (KLZ_WT15)	07:24			08:13			08:06			08:45
	21:53			21:03	37	07:53 (KLZ_WT15)	19:55			18:48			16:55			16:39
19	05:51			06:37		07:16 (KLZ_WT15)	07:25			08:14			08:08			08:45
	21:51			21:01	36	07:52 (KLZ_WT15)	19:53			18:46			16:54			16:39
20	05:53			06:38		07:17 (KLZ_WT15)	07:27			08:16			08:09			08:46
	21:50			20:59	35	07:52 (KLZ_WT15)	19:51			18:44			16:52			16:40
21	05:54			06:40		07:17 (KLZ_WT15)	07:29			08:18			08:11			08:47
	21:49			20:57	33	07:50 (KLZ_WT15)	19:48			18:42			16:51			16:40
22	05:55			06:41		07:08 (SAM_WT07)	07:30			08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48			20:55	34	07:49 (KLZ_WT15)	19:46			18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57			06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47			20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58			06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45			20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59		07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3	07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01		07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12	07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02		07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16	07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03		07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20	07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05		07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23	07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06		07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26	07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08		07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28	07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498			451			380			333			269			248
Total, worst case		130			919			48			282			538		
Sun reduction		0,45			0,47			0,43			0,36			0,27		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,64			0,64			0,61			0,55			0,55		
Total reduction		0,28			0,29			0,26			0,19			0,14		
Total, real		37			269			12			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (CBR_WT01)	06:20			05:37
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	10	07:56 (CBR_WT01)	21:06			21:51
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (CBR_WT01)	06:18			05:36
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	11	07:54 (CBR_WT01)	21:08			21:52
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:44 (CBR_WT01)	06:17			05:35
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	9	07:53 (CBR_WT01)	21:10			21:53
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:46 (CBR_WT01)	06:15			05:34
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	4	07:50 (CBR_WT01)	21:11			21:54
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14			06:13			05:34
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24			21:13			21:55
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12			06:11		06:36 (SAM_WT06)	05:33
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25			21:14	2	06:38 (SAM_WT06)	21:56
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10			06:09		06:34 (SAM_WT06)	05:32
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27			21:16	3	06:37 (SAM_WT06)	21:56
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08			06:08		06:32 (SAM_WT06)	05:32
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29			21:17	4	06:36 (SAM_WT06)	21:57
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06			06:06		06:31 (SAM_WT06)	05:31
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30			21:19	5	06:36 (SAM_WT06)	21:58
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03			06:04		06:29 (SAM_WT06)	05:31
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32			21:21	4	06:33 (SAM_WT06)	21:59
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01			06:03			05:31
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34			21:22			22:00
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59			06:01			05:30
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35			21:24			22:00
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57			06:00			05:30
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37			21:25			22:01
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55			05:58			05:30
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39			21:27			22:02
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53			05:57			05:30
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40			21:28			22:02
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50			05:55			05:30
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42			21:30			22:03
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48			05:54			05:30
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43			21:31			22:03
18	08:41		09:09 (RHR_WT03)	07:55			06:55			06:46			05:52			05:30
	17:11	13	09:23 (ALB_WT01)	18:05			18:54			20:45			21:33			22:03
19	08:40		09:08 (RHR_WT03)	07:53			06:53			06:44			05:51			05:30
	17:13	13	09:23 (ALB_WT01)	18:07			18:56			20:47			21:34			22:04
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49			05:30
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57			20:48			21:35			22:04
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48			05:30
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59			20:50			21:37			22:04
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47			05:30
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	1	07:09 (KLZ_WT10)	20:52	2	07:03 (SAM_WT07)	21:38			22:05
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46			05:30
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	3	07:09 (KLZ_WT10)	20:53	4	07:03 (SAM_WT07)	21:40			22:05
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44			05:31
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	5	07:09 (KLZ_WT10)	20:55	5	07:02 (SAM_WT07)	21:41			22:05
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43			05:31
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	6	07:07 (KLZ_WT10)	20:57	6	07:01 (SAM_WT07)	21:42			22:05
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42			05:31
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	2	07:04 (KLZ_WT10)	20:58	7	07:00 (SAM_WT07)	21:43			22:05
27	08:31		08:57 (RHR_WT02)	07:36			06:35		06:57 (KLZ_WT11)	06:28			05:41			05:32
	17:26	3	09:00 (RHR_WT02)	18:21			19:09	1	06:58 (KLZ_WT11)	21:00			21:45			22:05
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT11)	06:26			05:40			05:32
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	2	06:57 (KLZ_WT11)	21:01			21:46			22:05
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (CBR_WT01)	06:24			05:39			05:33
	17:29	4	08:58 (RHR_WT02)				20:12	3	07:55 (CBR_WT01)	21:03			21:47			22:05
30	08:27						07:28		07:50 (CBR_WT01)	06:22			05:38			05:33
	17:31						20:14	6	07:56 (CBR_WT01)	21:05			21:48			22:04
31	08:26						07:26		07:48 (CBR_WT01)				05:37			
	17:33						20:15	8	07:56 (CBR_WT01)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		779			33			139			58			18		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,65			0,56			0,58			0,64			0,69		
Total reduction		0,16			0,16			0,21			0,29			0,31		
Total, real		122			5			30			17			5		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09			06:57			07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04			21:34			20:33			19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35			06:11			06:59			07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04			21:32			20:31			19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35			06:12		06:40 (SAM_WT06)	07:00			07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04			21:30	5	06:45 (SAM_WT06)	20:29			19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36			06:14		06:41 (SAM_WT06)	07:02			07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03			21:29	4	06:45 (SAM_WT06)	20:27			19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37			06:15		06:43 (SAM_WT06)	07:03			07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03			21:27	4	06:47 (SAM_WT06)	20:24			19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38			06:17		06:44 (SAM_WT06)	07:05			07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02			21:25	3	06:47 (SAM_WT06)	20:22			19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38			06:18		06:46 (SAM_WT06)	07:07			07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02			21:24	1	06:47 (SAM_WT06)	20:20			19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39			06:20			07:08		07:40 (CBR_WT01)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01			21:22			20:18	4	07:44 (CBR_WT01)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40			06:21			07:10		07:38 (CBR_WT01)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00			21:20			20:15	9	07:47 (CBR_WT01)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41			06:23			07:11		07:36 (CBR_WT01)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00			21:18			20:13	11	07:47 (CBR_WT01)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42			06:24			07:13		07:38 (CBR_WT01)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59			21:16			20:11	10	07:48 (CBR_WT01)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43			06:26			07:14		07:39 (CBR_WT01)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58			21:14			20:09	8	07:47 (CBR_WT01)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44			06:27			07:16		07:41 (CBR_WT01)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57			21:13			20:06	6	07:47 (CBR_WT01)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45			06:29			07:18		07:42 (CBR_WT01)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56			21:11			20:04	4	07:46 (CBR_WT01)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47			06:31			07:19		07:44 (KLZ_WT11)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56			21:09			20:02	1	07:45 (KLZ_WT11)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48			06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT11)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55			21:07	3	07:05 (SAM_WT07)	20:00	2	07:47 (KLZ_WT11)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49			06:34		07:00 (SAM_WT07)	07:22			08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54			21:05	7	07:07 (SAM_WT07)	19:57			18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50			06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53			21:03	6	07:08 (SAM_WT07)	19:55	6	07:55 (KLZ_WT10)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51			06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51			21:01	5	07:08 (SAM_WT07)	19:53	5	07:55 (KLZ_WT10)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53			06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50			20:59	4	07:09 (SAM_WT07)	19:50	3	07:55 (KLZ_WT10)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54			06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49			20:57	2	07:08 (SAM_WT07)	19:48	1	07:54 (KLZ_WT10)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55			06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48			20:55			19:46			18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56			06:43			07:32			08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47			20:53			19:44			18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58			06:45			07:33			08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45			20:50			19:41			18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59			06:46			07:35			07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44			20:48			19:39			17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01			06:48			07:37			07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43			20:46			19:37			17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02			06:49			07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41			20:44			19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03			06:51			07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40			20:42			19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05			06:52			07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38			20:40			19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06			06:54			07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37			20:38			19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08			06:56						07:35						08:50		12:36 (KLZ_WT16)
	21:35			20:35						17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case					44			70			119			311			1476	
Sun reduction					0,47			0,43			0,36			0,27			0,23	
Oper. time red.					0,97			0,97			0,97			0,97			0,97	
Wind dir. red.					0,67			0,62			0,56			0,60			0,68	
Total reduction					0,30			0,26			0,20			0,16			0,15	
Total, real					13			18			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		18:43 (KLZ_WT15)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	15	08:01 (CBR_WT01)	21:06	75	19:55 (KLZ_WT15)	21:51	75	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		18:45 (KLZ_WT15)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	12	07:59 (CBR_WT01)	21:08	76	19:56 (KLZ_WT15)	21:52	73	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (CBR_WT01)	06:17		18:40 (KLZ_WT15)	05:35		18:45 (KLZ_WT15)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	9	07:57 (CBR_WT01)	21:10	77	19:57 (KLZ_WT15)	21:53	73	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17			06:15		18:39 (KLZ_WT15)	05:34		18:45 (KLZ_WT15)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	6	08:23 (KLZ_WT08)	20:22			21:11	78	19:57 (KLZ_WT15)	21:54	72	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24			07:14			06:13		18:38 (KLZ_WT15)	05:34		18:46 (KLZ_WT15)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32			20:24			21:13	79	19:57 (KLZ_WT15)	21:55	72	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21			07:12			06:11		18:39 (KLZ_WT15)	05:33		18:46 (KLZ_WT15)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33			20:25			21:14	79	19:58 (KLZ_WT15)	21:56	71	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19			07:10			06:09		18:38 (KLZ_WT15)	05:32		18:47 (KLZ_WT15)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35			20:27			21:16	80	19:58 (KLZ_WT15)	21:56	71	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17			07:08			06:08		06:32 (SAM_WT06)	05:32		18:48 (KLZ_WT15)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37			20:29			21:17	81	19:57 (KLZ_WT15)	21:57	70	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15			07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		18:47 (KLZ_WT15)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39			20:30	1	07:29 (SAM_WT04)	21:19	83	19:58 (KLZ_WT15)	21:58	71	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13			07:03			06:04		06:29 (SAM_WT06)	05:31		18:48 (KLZ_WT15)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40			20:32			21:21	86	19:58 (KLZ_WT15)	21:59	70	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11			07:01			06:03		06:28 (SAM_WT06)	05:31		18:49 (KLZ_WT15)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42			20:34			21:22	86	19:58 (KLZ_WT15)	22:00	69	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08			06:59			06:01		06:26 (SAM_WT06)	05:30		18:48 (KLZ_WT15)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44			20:35			21:24	88	19:58 (KLZ_WT15)	22:00	70	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06			06:57		19:17 (KLZ_WT15)	06:00		06:25 (SAM_WT06)	05:30		18:49 (KLZ_WT15)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45			20:37	7	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	69	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04			06:55		19:09 (KLZ_WT15)	05:58		06:25 (SAM_WT06)	05:30		18:50 (KLZ_WT15)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47			20:38	23	19:32 (KLZ_WT15)	21:27	86	19:58 (KLZ_WT15)	22:02	68	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02			06:53		19:05 (KLZ_WT15)	05:56		18:38 (KLZ_WT15)	05:30		18:50 (KLZ_WT15)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49			20:40	31	19:36 (KLZ_WT15)	21:28	80	19:58 (KLZ_WT15)	22:02	68	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59			06:50		07:13 (SAM_WT11)	05:55		18:38 (KLZ_WT15)	05:30		18:50 (KLZ_WT15)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50			20:42	37	19:38 (KLZ_WT15)	21:30	81	19:59 (KLZ_WT15)	22:03	68	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57			06:48		07:11 (SAM_WT11)	05:54		18:38 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52			20:43	44	19:41 (KLZ_WT15)	21:31	80	19:58 (KLZ_WT15)	22:03	68	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		18:38 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	2	07:19 (KLZ_WT10)	20:45	48	19:43 (KLZ_WT15)	21:33	80	19:58 (KLZ_WT15)	22:03	68	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		18:55 (KLZ_WT15)	05:51		18:39 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	5	07:20 (KLZ_WT10)	20:47	49	19:44 (KLZ_WT15)	21:34	80	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		18:53 (KLZ_WT15)	05:49		18:39 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	7	07:20 (KLZ_WT10)	20:48	53	19:46 (KLZ_WT15)	21:35	80	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		18:51 (KLZ_WT15)	05:48		18:40 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	9	07:19 (KLZ_WT10)	20:50	56	19:47 (KLZ_WT15)	21:37	79	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		18:39 (KLZ_WT15)	05:30		18:52 (KLZ_WT15)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	9	07:18 (KLZ_WT10)	20:52	61	19:49 (KLZ_WT15)	21:38	79	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:06 (KLZ_WT11)	06:36		06:59 (SAM_WT07)	05:46		18:40 (KLZ_WT15)	05:30		18:52 (KLZ_WT15)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	8	07:17 (KLZ_WT10)	20:53	65	19:50 (KLZ_WT15)	21:40	78	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41		07:04 (KLZ_WT11)	06:34		06:57 (SAM_WT07)	05:44		18:40 (KLZ_WT15)	05:31		18:52 (KLZ_WT15)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04	3	07:07 (KLZ_WT11)	20:55	69	19:51 (KLZ_WT15)	21:41	78	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT11)	06:32		06:55 (SAM_WT07)	05:43		18:40 (KLZ_WT15)	05:31		18:53 (KLZ_WT15)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	5	07:06 (KLZ_WT11)	20:57	73	19:51 (KLZ_WT15)	21:42	78	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT11)	06:30		06:53 (SAM_WT07)	05:42		18:41 (KLZ_WT15)	05:31		18:52 (KLZ_WT15)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	5	07:04 (KLZ_WT11)	20:58	76	19:52 (KLZ_WT15)	21:43	77	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (CBR_WT01)	06:28		06:51 (SAM_WT07)	05:41		18:41 (KLZ_WT15)	05:32		18:53 (KLZ_WT15)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	4	07:01 (CBR_WT01)	21:00	79	19:53 (KLZ_WT15)	21:45	77	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (CBR_WT01)	06:26		06:51 (SAM_WT07)	05:40		18:42 (KLZ_WT15)	05:32		18:53 (KLZ_WT15)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	7	07:02 (CBR_WT01)	21:01	80	19:54 (KLZ_WT15)	21:46	76	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (CBR_WT01)	06:24		06:53 (SAM_WT07)	05:39		18:43 (KLZ_WT15)	05:33		18:53 (KLZ_WT15)
	17:29	3	08:57 (RHR_WT01)				20:12	9	08:01 (CBR_WT01)	21:03	78	19:55 (KLZ_WT15)	21:47	75	19:58 (KLZ_WT15)	22:05	69	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (CBR_WT01)	06:22		18:41 (KLZ_WT15)	05:38		18:43 (KLZ_WT15)	05:33		18:53 (KLZ_WT15)
	17:31	5	08:58 (RHR_WT01)				20:14	11	08:01 (CBR_WT01)	21:05	74	19:55 (KLZ_WT15)	21:48	75	19:58 (KLZ_WT15)	22:04	69	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		18:43 (KLZ_WT15)			
	17:33	6	08:57 (RHR_WT01)				20:15	13	08:01 (CBR_WT01)				21:49	75	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			147			1040			2469			2084	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,55			0,59			0,59			0,59			0,59	
Total reduction		0,17			0,16			0,22			0,27			0,26			0,25	
Total, real		186			31			32			279			650			531	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		18:53 (KLZ_WT15)	06:09		06:37 (SAM_WT06)	06:57			07:44			07:37			08:26		09:00 (RHR_WT03)
	22:04	69	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33			19:25			17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		18:52 (KLZ_WT15)	06:11		06:39 (SAM_WT06)	06:59			07:46			07:38			08:27		09:00 (RHR_WT03)
	22:04	70	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31			19:23			17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		18:53 (KLZ_WT15)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48			07:40			08:29		09:00 (RHR_WT03)
	22:04	70	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	1	07:27 (SAM_WT04)	19:21			17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		18:53 (KLZ_WT15)	06:14		06:41 (SAM_WT06)	07:02			07:49			07:42			08:30		09:02 (RHR_WT03)
	22:03	70	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27			19:19			17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		18:53 (KLZ_WT15)	06:15		06:43 (SAM_WT06)	07:03			07:51			07:44			08:31		09:03 (RHR_WT03)
	22:03	71	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24			19:16			17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		18:52 (KLZ_WT15)	06:17		18:48 (KLZ_WT15)	07:05			07:53			07:45			08:33		09:04 (RHR_WT03)
	22:02	72	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22			19:14			17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		18:52 (KLZ_WT15)	06:18		18:48 (KLZ_WT15)	07:07			07:54			07:47			08:34		09:06 (RHR_WT03)
	22:02	72	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20			19:12			17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		18:52 (KLZ_WT15)	06:20		18:48 (KLZ_WT15)	07:08			07:56			07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	73	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18			19:10			17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		18:52 (KLZ_WT15)	06:21		18:49 (KLZ_WT15)	07:10		07:43 (CBR_WT01)	07:58			07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	73	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	8	07:51 (CBR_WT01)	19:08			17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		18:52 (KLZ_WT15)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	73	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	12	07:52 (CBR_WT01)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		18:52 (KLZ_WT15)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	74	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	15	07:53 (CBR_WT01)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		18:52 (KLZ_WT15)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	74	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	13	07:52 (CBR_WT01)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		18:52 (KLZ_WT15)	06:27		18:49 (KLZ_WT15)	07:16		07:41 (CBR_WT01)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	74	20:06 (KLZ_WT15)	21:13	74	20:03 (KLZ_WT15)	20:06	12	07:53 (CBR_WT01)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		18:51 (KLZ_WT15)	06:29		07:00 (SAM_WT07)	07:18		07:42 (CBR_WT01)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	76	20:07 (KLZ_WT15)	21:11	78	20:02 (KLZ_WT15)	20:04	10	07:52 (CBR_WT01)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		18:51 (KLZ_WT15)	06:30		06:57 (SAM_WT07)	07:19		07:44 (CBR_WT01)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	76	20:07 (KLZ_WT15)	21:09	81	20:01 (KLZ_WT15)	20:02	7	07:51 (CBR_WT01)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		18:51 (KLZ_WT15)	06:32		06:59 (SAM_WT07)	07:21		07:45 (CBR_WT01)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	76	20:07 (KLZ_WT15)	21:07	78	20:00 (KLZ_WT15)	20:00	4	07:49 (CBR_WT01)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		18:51 (KLZ_WT15)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT11)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	76	20:07 (KLZ_WT15)	21:05	76	19:59 (KLZ_WT15)	19:57	5	07:52 (KLZ_WT11)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		18:50 (KLZ_WT15)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT11)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	77	20:07 (KLZ_WT15)	21:03	72	19:58 (KLZ_WT15)	19:55	5	07:54 (KLZ_WT11)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		18:50 (KLZ_WT15)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT11)	08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	77	20:07 (KLZ_WT15)	21:01	68	19:56 (KLZ_WT15)	19:53	4	07:54 (KLZ_WT11)	18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		18:50 (KLZ_WT15)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT11)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	79	20:09 (KLZ_WT15)	20:59	64	19:55 (KLZ_WT15)	19:50	8	08:03 (KLZ_WT10)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		18:50 (KLZ_WT15)	06:40		18:54 (KLZ_WT15)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	78	20:08 (KLZ_WT15)	20:57	59	19:53 (KLZ_WT15)	19:48	9	08:04 (KLZ_WT10)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		18:50 (KLZ_WT15)	06:41		18:56 (KLZ_WT15)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	78	20:08 (KLZ_WT15)	20:55	56	19:52 (KLZ_WT15)	19:46	10	08:05 (KLZ_WT10)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		18:49 (KLZ_WT15)	06:43		18:57 (KLZ_WT15)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	79	20:08 (KLZ_WT15)	20:53	52	19:49 (KLZ_WT15)	19:44	8	08:04 (KLZ_WT10)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		18:50 (KLZ_WT15)	06:45		18:59 (KLZ_WT15)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	79	20:09 (KLZ_WT15)	20:50	49	19:48 (KLZ_WT15)	19:41	6	08:04 (KLZ_WT10)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		18:49 (KLZ_WT15)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	80	20:09 (KLZ_WT15)	20:48	47	19:45 (KLZ_WT15)	19:39	3	08:03 (KLZ_WT10)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		18:49 (KLZ_WT15)	06:48		07:14 (SAM_WT11)	07:36			07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	80	20:09 (KLZ_WT15)	20:46	43	19:43 (KLZ_WT15)	19:37			17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		18:48 (KLZ_WT15)	06:49		07:15 (SAM_WT11)	07:38			07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	80	20:08 (KLZ_WT15)	20:44	37	19:40 (KLZ_WT15)	19:35			17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		18:49 (KLZ_WT15)	06:51		19:07 (KLZ_WT15)	07:40			07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	80	20:09 (KLZ_WT15)	20:42	30	19:37 (KLZ_WT15)	19:32			17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		18:48 (KLZ_WT15)	06:52		19:10 (KLZ_WT15)	07:41			07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	81	20:09 (KLZ_WT15)	20:40	22	19:32 (KLZ_WT15)	19:30			17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:35 (SAM_WT06)	06:54		19:19 (KLZ_WT15)	07:43			07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	86	20:08 (KLZ_WT15)	20:38	5	19:24 (KLZ_WT15)	19:28			17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (SAM_WT06)	06:56						07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35						17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		2361			1952			140			210			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59			0,59			0,62			0,56			0,70			0,68	
Total reduction		0,26			0,27			0,26			0,20			0,18			0,15	
Total, real		609			527			37			41			99			261	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

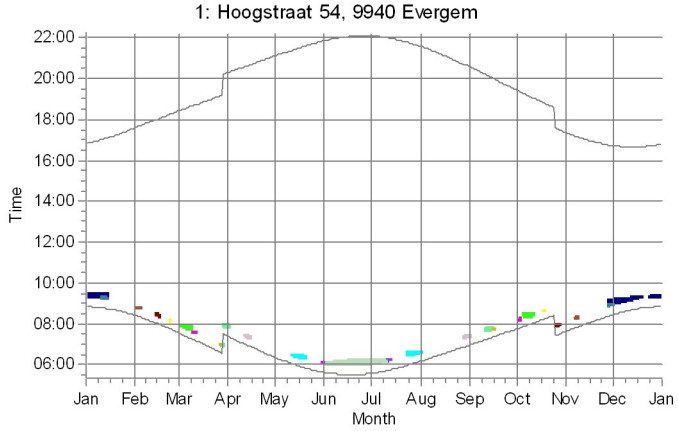
Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

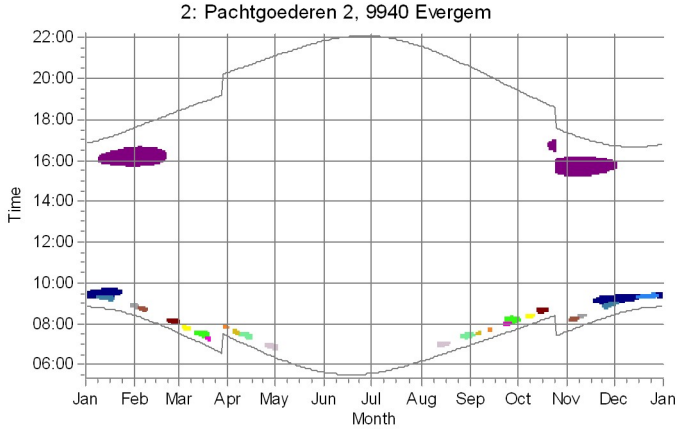
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

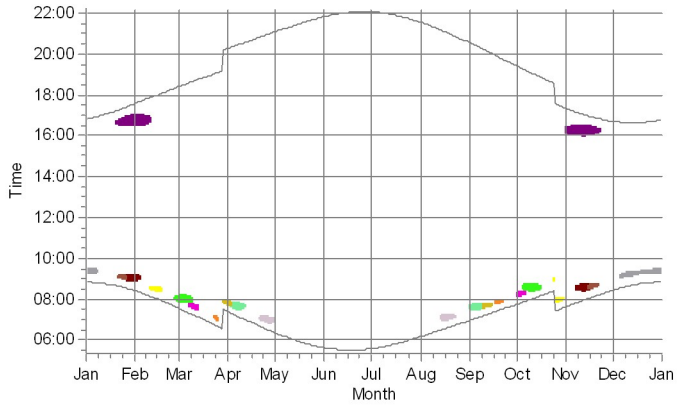
1: Hoogstraat 54, 9940 Evergem



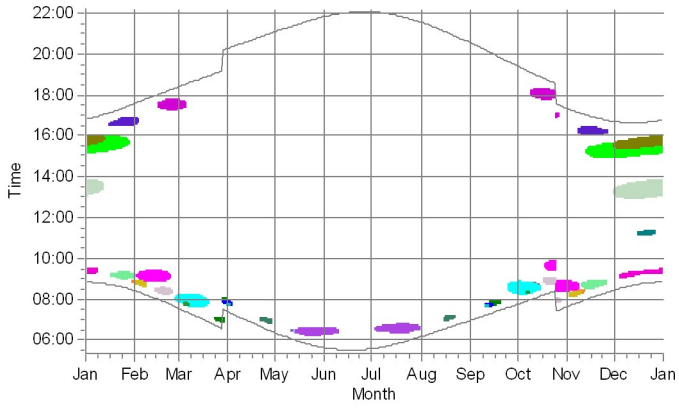
2: Pachtgoederen 2, 9940 Evergem



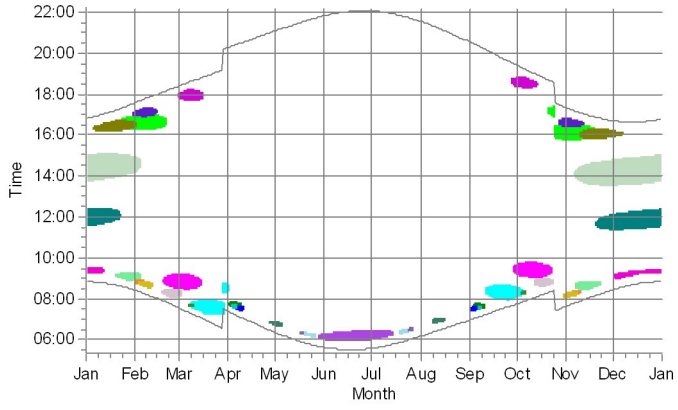
3: Pachtgoederen 2, 9940 Evergem



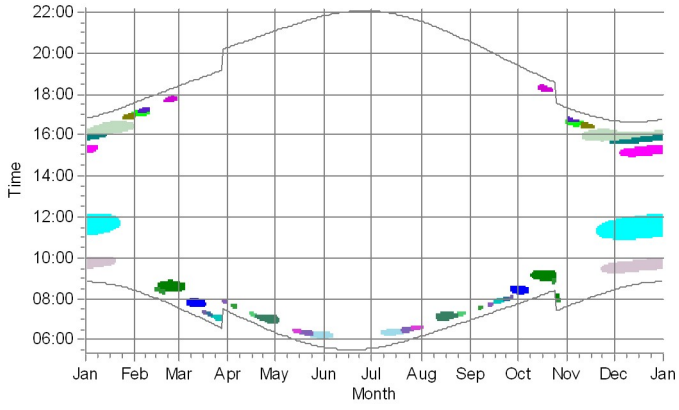
4: Ooievaarstraat 7, 9940 Evergem



5: Speidamstraat 58, 9940 Evergem



6: Rimewegel 46, 9940 Evergem



WTGs

KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)
EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)
EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

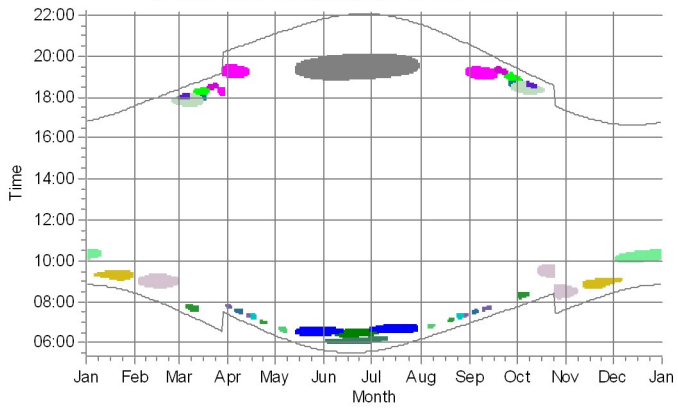
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Calculated:
09/04/2026 03:38/4.1.264

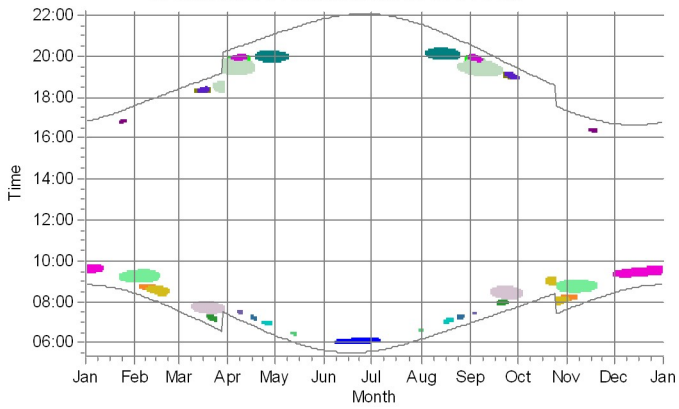
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

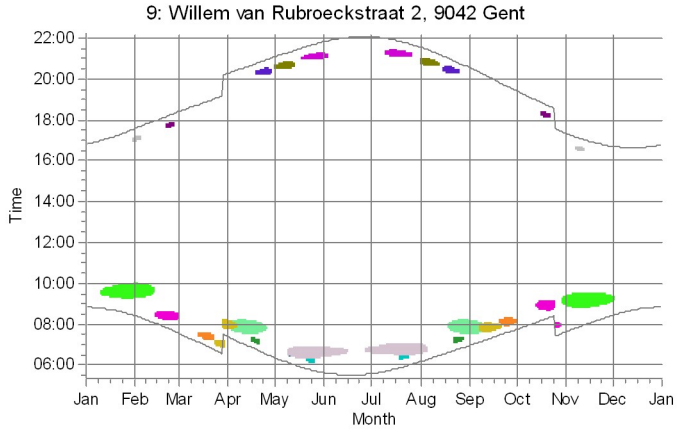
7: Christoffel Columbuslaan 23, 9042 Gent



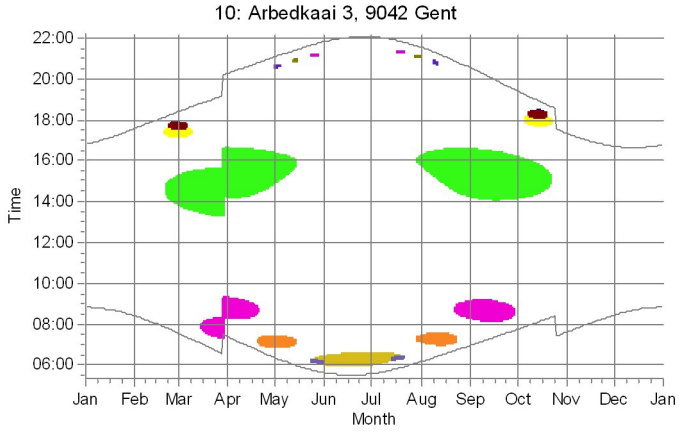
8: Christoffel Columbuslaan 23, 9042 Gent



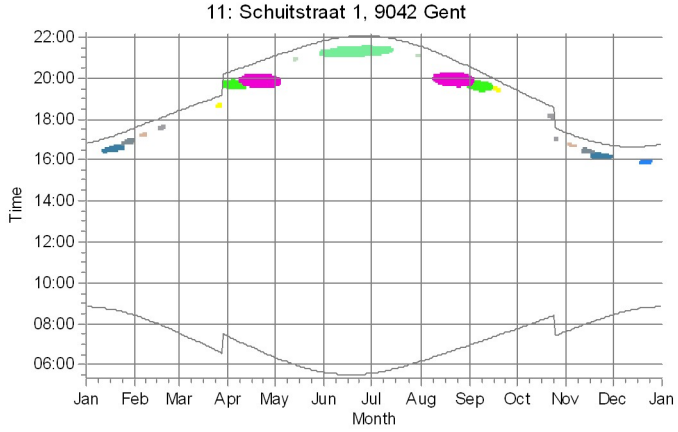
9: Willem van Rubroeckstraat 2, 9042 Gent



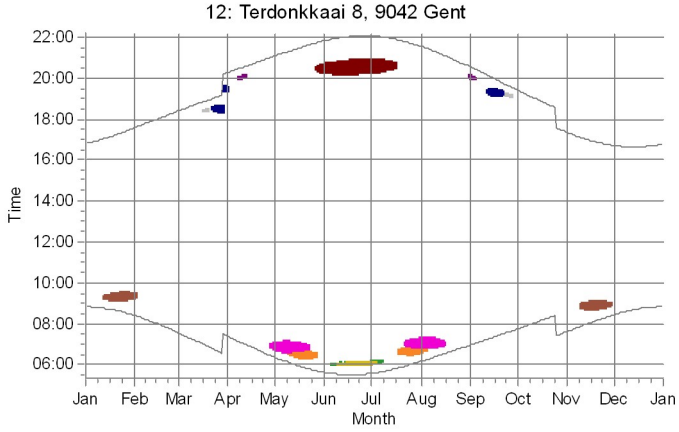
10: Arbedkaai 3, 9042 Gent



11: Schuitstraat 1, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

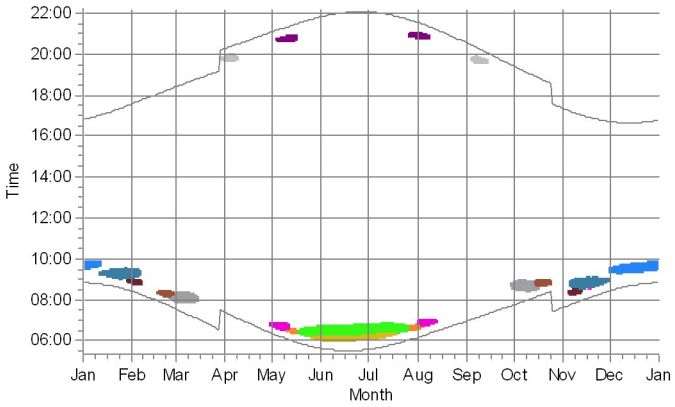
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Calculated:
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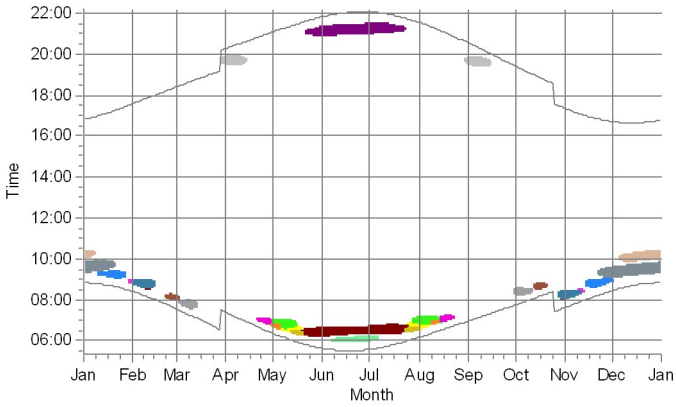
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

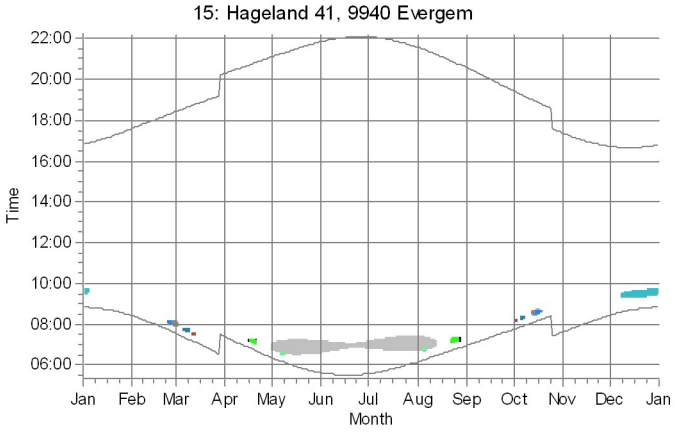
13: Doornzele Dries 107, 9940 Evergem



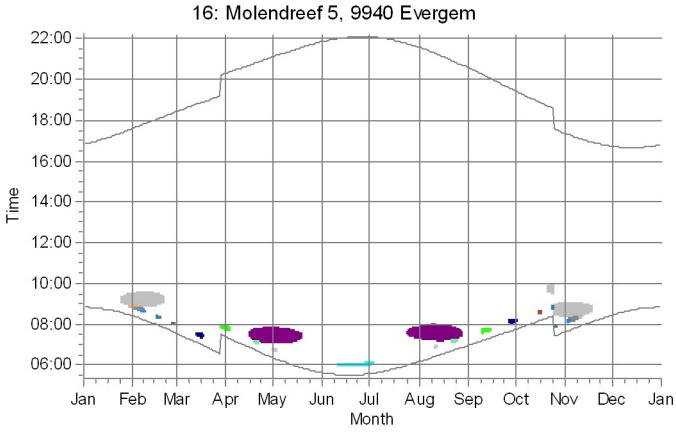
14: Abdijdreef 2, 9940 Evergem



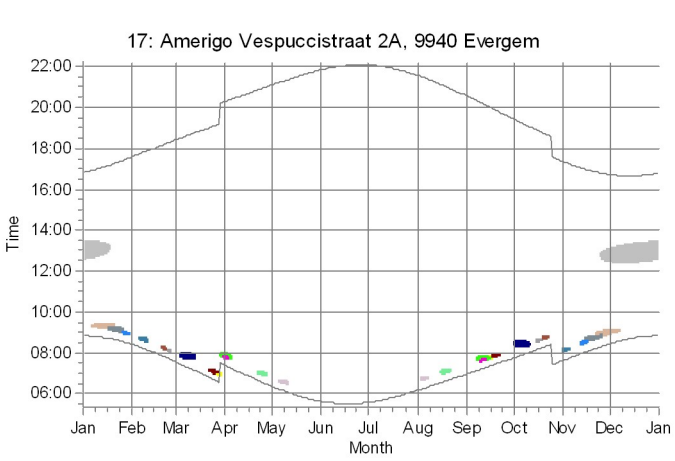
15: Hageland 41, 9940 Evergem



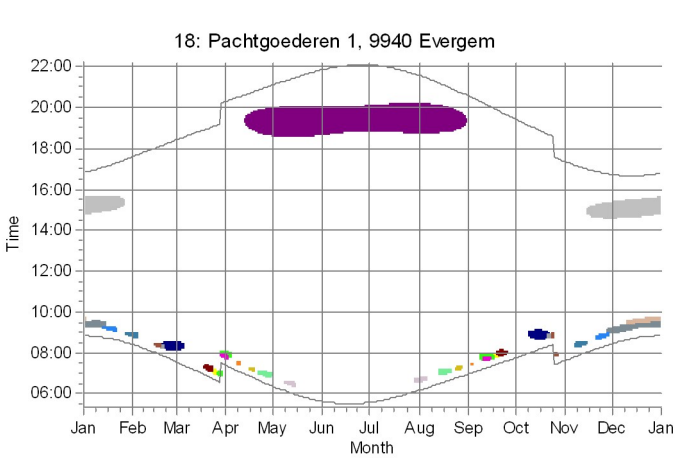
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

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SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:37-09:40/3	08:24 08:50-08:54/4	07:32 07:59-08:04/5	07:23	06:20	05:37
	16:48 10:05-10:22/17	17:35	18:25	20:17	21:06	21:50
2	08:49 10:07-10:22/15	08:22 08:48-08:54/6	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 10:07-10:21/14	08:21 08:46-08:53/7	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:08-10:21/13	08:19 08:46-08:53/7	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:10-10:20/10	08:18 17:12-17:13/1	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 10:11-10:19/8	08:16 17:12-17:15/3	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:20/2	08:14 17:13-17:17/4	07:19	07:10	06:09	05:32
	16:55 10:15-10:17/2	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:17-09:21/4	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:16-09:22/6	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:22/7	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:14-09:23/9	08:04	07:06	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:24/11	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:12-09:24/12	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:12-09:24/12	07:56	06:57	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:13-09:23/10	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:15-09:23/8	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:17-09:22/5	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:08/6	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:08/8	06:35	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:06/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:54/1		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	195	61	5	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40	16:45-16:47/2	08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	16:43-16:46/3	08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	16:42-16:44/2	08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12	16:42-16:43/1	16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02		07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:32-08:38/6	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:39/8	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:40/7	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:41/6	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11	08:36-08:39/3	08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12	08:38-08:39/1	08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	31		124		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December	
1	08:49 09:32-09:40/8	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26	
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42	
2	08:49 09:33-09:40/7	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27	
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42	
3	08:49 09:35-09:39/4	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29	
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41	
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30	
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41	
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31	
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40	
6	08:49	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33	
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40	
7	08:48	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34	
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39	
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35	
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39	
9	08:47	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36	09:23-09:27/4
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39	
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37	09:22-09:29/7
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38	
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38	09:22-09:30/8
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38	
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39	09:22-09:31/9
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38	
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40	09:22-09:32/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38	
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41	09:22-09:32/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38	
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42	09:22-09:33/11
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38	
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43	09:23-09:34/11
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38	
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44	09:23-09:35/12
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39	
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44	09:23-09:35/12
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39	
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45	09:24-09:36/12
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39	
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46	09:24-09:37/13
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40	
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46	09:24-09:37/13
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40	
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47	09:25-09:38/13
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40	
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47	09:25-09:38/13
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41	
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48	09:26-09:38/12
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42	
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48	09:27-09:39/12
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42	
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49	09:27-09:39/12
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43	
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49	09:28-09:39/11
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44	
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49	09:28-09:39/11
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44	
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49	09:29-09:39/10
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45	
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49	09:29-09:40/11
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46	
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49	09:30-09:40/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47	
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248	
Sum of minutes with flicker	19	0	0	0	0	0	0	0	0	0	0	247	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 09:22-09:57/35	07:32 13:53-15:15/82	07:23 07:46-08:01/15 14:16-16:35/139	06:20 06:44-06:58/14	05:36 06:13-06:40/27
	16:48	17:35	18:25 07:55-08:08/13	20:17 19:33-19:51/18	21:06 15:01-16:20/79	21:50
2	08:49	08:22 09:22-09:56/34	07:30 13:51-15:17/86	07:21 07:43-07:59/16 14:16-16:35/139	06:18 06:42-06:58/16	05:36 06:14-06:41/27
	16:49	17:36	18:26 07:53-08:09/16	20:19 19:32-19:52/20	21:08 15:04-16:19/75	21:51
3	08:49	08:21 09:22-09:56/34	07:28 13:49-15:19/90	07:19 07:44-07:57/13 14:16-16:35/139	06:16 06:41-07:00/19	05:35 06:14-06:40/26
	16:50	17:38	18:28 07:51-08:09/18	20:20 19:31-19:52/21	21:09 15:06-16:17/71	21:53
4	08:49	08:19 09:23-09:56/33	07:26 13:47-15:21/94	07:16 07:46-07:50/4 14:16-16:35/139	06:15 06:40-07:00/20	05:34 06:13-06:40/27
	16:51	17:40	18:30 07:49-08:09/20	20:22 19:31-19:53/22	21:11 15:10-16:17/67	21:54
5	08:49	08:18 09:23-09:55/32	07:24 13:44-15:21/97	07:14 19:30-19:52/22	06:13 06:40-06:59/19	05:33 06:14-06:41/27
	16:52	17:42	18:32 07:47-08:07/20	20:24 14:16-16:35/139	21:13 15:13-16:16/63	21:55
6	08:49	08:16 09:24-09:54/30	07:21 13:43-15:23/100	07:12 19:30-19:51/21	06:11 06:40-07:00/20	05:33 06:14-06:41/27
	16:54	17:44	18:33 07:44-08:07/23	20:25 14:16-16:34/138	21:14 15:16-16:14/58	21:55
7	08:48	08:14 09:25-09:53/28	07:19 13:41-15:24/103	07:10 19:30-19:51/21	06:09 06:40-07:00/20	05:32 06:14-06:41/27
	16:55	17:45	18:35 07:43-08:05/22	20:27 14:16-16:34/138	21:16 15:20-16:13/53	21:56
8	08:48	08:13 09:26-09:53/27	07:17 13:40-15:26/106 07:45-07:51/6	07:08 19:31-19:50/19	06:08 06:39-06:59/20	05:32 06:15-06:42/27
	16:56	17:47	18:37 07:54-08:04/10	20:28 14:16-16:34/138	21:17 15:23-16:11/48	21:57
9	08:47	08:11 09:28-09:51/23	07:15 13:38-15:26/108	07:05 19:32-19:49/17	06:06 06:40-06:59/19	05:31 06:15-06:41/26
	16:58	17:49	18:38	20:30 14:17-16:34/137	21:19 15:26-16:10/44	21:58
10	08:47	08:09 09:29-09:49/20	07:13 13:36-15:27/111	07:03 19:33-19:48/15	06:04 06:40-06:58/18	05:31 06:15-06:42/27
	16:59	17:51	18:40	20:32 14:17-16:34/137	21:20 15:30-16:08/38	21:59
11	08:46 09:31-09:35/4	08:08 09:31-09:47/16	07:10 13:35-15:28/113	07:01 19:34-19:45/11	06:03 06:41-06:58/17	05:31 06:16-06:42/26
	17:00	17:53	18:42	20:33 14:17-16:32/135	21:22 15:34-16:07/33	21:59
12	08:46 09:28-09:38/10	08:06 09:34-09:43/9	07:08 13:34-15:30/116	06:59 14:18-16:32/134	06:01 06:41-06:56/15	05:30 06:15-06:41/26
	17:02	17:54	18:44 07:31-07:35/4	20:35	21:24 15:38-16:04/26	22:00
13	08:45 09:27-09:41/14	08:04	07:06 13:32-15:30/118	06:57 14:19-16:32/133	05:59 06:43-06:56/13	05:30 06:15-06:42/27
	17:03	17:56	18:45 07:29-07:36/7	20:37	21:25 15:43-16:00/17	22:01
14	08:44 09:26-09:43/17	08:02	07:04 13:31-15:31/120	06:55 14:20-16:31/131	05:58 06:44-06:53/9	05:30 06:16-06:42/26
	17:05	17:58	18:47 07:26-07:36/10	20:38	21:27	22:01
15	08:44 09:25-09:44/19	08:00	07:01 13:30-15:31/121	06:52 14:21-16:31/130	05:56 06:47-06:51/4	05:30 06:16-06:42/26
	17:06	18:00	18:49 07:24-07:36/12	20:40	21:28	22:02
16	08:43 09:24-09:46/22	07:58	06:59 13:29-15:32/123	06:50 14:23-16:31/128	05:55	05:29 06:16-06:43/27
	17:08	18:02	18:50 07:22-07:36/14	20:42	21:30	22:02
17	08:42 09:23-09:47/24	07:56	06:57 13:27-15:32/125	06:48 07:11-07:13/2	05:53	05:29 06:17-06:43/26
	17:09	18:03	18:52 07:22-07:35/13	20:43 14:24-16:30/126	21:31	22:03
18	08:41 09:23-09:48/25	07:54	06:55 13:26-15:33/127	06:46 07:09-07:13/4	05:52 06:24-06:27/3	05:29 06:17-06:43/26
	17:11	18:05	18:54 07:22-07:33/11	20:45 14:26-16:30/124	21:32	22:03
19	08:40 09:22-09:50/28	07:53	06:53 13:25-15:34/129	06:44 07:07-07:12/5	05:51 06:21-06:31/10	05:29 06:17-06:43/26
	17:12	18:07	18:55 07:23-07:32/9	20:47 14:28-16:29/121	21:34	22:04
20	08:39 09:22-09:51/29	07:51	06:50 13:25-15:34/129	06:42 07:05-07:10/5	05:49 06:19-06:33/14	05:30 06:17-06:43/26
	17:14	18:09	18:57	20:48 14:30-16:29/119	21:35	22:04
21	08:38 09:21-09:51/30	07:49 14:21-14:48/27	06:48 13:23-15:34/131	06:40 14:32-16:28/116	05:48 06:17-06:33/16	05:30 06:17-06:43/26
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:21-09:52/31	07:47 14:15-14:53/38	06:46 13:22-15:34/132	06:38 14:34-16:27/113	05:47 06:16-06:35/19	05:30 06:18-06:44/26
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:21-09:53/32	07:45 14:11-14:58/47	06:43 13:22-15:35/133	06:36 14:37-16:27/110	05:46 06:16-06:36/20	05:30 06:18-06:44/26
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:20-09:53/33	07:42 14:07-15:02/55	06:41 13:20-15:34/134	06:34 14:39-16:26/107	05:44 06:15-06:36/21	05:30 06:18-06:44/26
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:20-09:54/34	07:40 14:04-15:05/61	06:39 13:20-15:35/135	06:32 14:42-16:25/103	05:43 06:15-06:37/22	05:31 06:19-06:45/26
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:21-09:55/34	07:38 14:01-15:08/67	06:37 13:19-15:35/136	06:30 14:45-16:24/99	05:42 06:14-06:37/23	05:31 06:19-06:45/26
	17:24	18:19 08:02-08:04/2	19:07	20:58	21:43	22:05
27	08:31 09:20-09:55/35	07:36 13:57-15:10/73	06:34 06:57-07:01/4	06:28 14:48-16:23/95	05:41 06:14-06:38/24	05:32 06:18-06:44/26
	17:26	18:21 08:00-08:07/7	19:09 13:19-15:36/137	21:00	21:45	22:05
28	08:30 09:21-09:56/35	07:34 13:55-15:13/78	06:32 06:55-07:02/7	06:26 14:51-16:22/91	05:40 06:13-06:38/25	05:32 06:19-06:45/26
	17:28	18:23 07:57-08:07/10	19:10 13:18-15:35/137	21:01	21:46	22:05
29	08:28 09:20-09:55/35		07:30 07:52-08:01/9 14:18-16:35/137	06:24 06:48-06:56/8	05:39 06:14-06:39/25	05:33 06:20-06:46/26
	17:29		20:12 19:41-19:46/5	21:03 14:55-16:22/87	21:47	22:05
30	08:27 09:21-09:56/35		07:28 07:50-08:01/11 14:17-16:35/138	06:22 06:46-06:57/11	05:38 06:14-06:40/26	05:33 06:19-06:46/27
	17:31		20:14 19:37-19:49/12	21:05 14:58-16:21/83	21:48	22:04
31	08:25 09:21-09:56/35		07:25 07:48-08:01/13 14:17-16:36/139		05:37 06:14-06:40/26	
	17:33		20:15 19:35-19:50/15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	561	786	3991	3958	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 19:33-19:44/11 20:33 14:17-16:32/135	07:44 14:12-16:09/117 19:25 08:09-08:15/6	07:36 08:58-09:20/22 17:21	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 19:31-19:46/15 20:31 14:15-16:31/136	07:46 14:13-16:08/115 19:23 08:11-08:13/2	07:38 08:57-09:21/24 17:19	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 19:30-19:47/17 20:29 14:15-16:32/137	07:48 14:14-16:06/112 19:21	07:40 08:55-09:22/27 17:17	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 19:28-19:47/19 20:27 14:13-16:31/138	07:49 14:15-16:05/110 19:19	07:42 08:54-09:23/29 17:16	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 19:27-19:48/21 20:24 14:13-16:31/138	07:51 14:16-16:03/107 08:23-08:27/4 19:16 08:32-08:39/7	07:43 08:54-09:24/30 17:14	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 19:26-19:47/21 20:22 14:12-16:30/138	07:52 14:17-16:01/104 08:20-08:28/8 19:14 08:29-08:41/12	07:45 08:53-09:25/32 17:12	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 19:26-19:48/22 20:20 14:11-16:30/139	07:54 14:18-16:00/102 19:12 08:19-08:42/23	07:47 08:53-09:26/33 17:11	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 14:10-16:29/139 20:18 19:25-19:47/22	07:56 14:20-15:58/98 19:10 08:21-08:43/22	07:49 08:53-09:26/33 17:09	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 14:10-16:29/139 20:15 19:26-19:47/21	07:57 14:20-15:56/96 19:08 08:22-08:43/21	07:50 08:52-09:27/35 17:07	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 14:09-16:28/139 20:13 19:25-19:45/20	07:59 14:22-15:54/92 19:05 08:24-08:43/19	07:52 08:52-09:27/35 17:06	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 14:09-16:28/139 20:11 19:26-19:44/18	08:01 14:24-15:52/88 19:03 08:26-08:43/17	07:54 08:53-09:28/35 17:04	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 14:08-16:27/139 20:09 19:26-19:42/16	08:02 14:25-15:49/84 19:01 08:28-08:42/14	07:56 08:52-09:27/35 17:03	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 14:09-16:27/138 20:06 19:28-19:40/12	08:04 14:27-15:47/80 18:59 08:29-08:41/12	07:57 08:52-09:27/35 17:01	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 14:08-16:26/138 20:04 19:30-19:37/7	08:06 14:29-15:45/76 18:57 08:31-08:40/9	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 18:55 08:33-08:38/5	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 07:09-07:14/5 20:52 14:33-16:32/119	07:32 14:08-16:18/130 19:43	08:21 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 07:11-07:16/5 20:50 14:31-16:33/122	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:12-07:16/4 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:16/2 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 14:24-16:32/128 20:44	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 14:23-16:33/130 20:42	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 17:28	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 19:30 08:06-08:17/11	07:31 17:26	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 19:28 08:08-08:16/8	07:33 09:03-09:14/11 17:25	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 19:38-19:40/2 20:35 14:18-16:32/134		07:35 09:00-09:17/17 17:23		08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3089	4419	1939	859	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: EAM_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:07-06:17/10	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35 06:07-06:17/10	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:09-06:17/8	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:09-06:16/7	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:11-06:15/4	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38 06:18-06:21/3	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39 06:17-06:23/6	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40 06:16-06:24/8	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41 06:16-06:25/9	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30	05:42 06:16-06:26/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43 06:15-06:26/11	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59 06:25-06:27/2	05:30	05:44 06:15-06:27/12	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45 06:15-06:27/12	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46 06:16-06:27/11	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47 06:17-06:28/11	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48 06:18-06:28/10	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:28/9	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29	05:51 06:20-06:28/8	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:17/1	05:29	05:52 06:21-06:27/6	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:16/2	05:29	05:53 06:23-06:28/5	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:47 06:13-06:17/4	05:30	05:55 06:24-06:27/3	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:12-06:18/6	05:30	05:56 06:25-06:27/2	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34	05:44 06:11-06:18/7	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43 06:10-06:18/8	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:09-06:18/9	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:08-06:18/10	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:18/11	05:32	06:03 06:32-06:35/3	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:18/12	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:18/12	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37 06:07-06:18/11		06:07 06:36-06:37/1	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	103	39	145	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: EAM_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:23/1	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:23/4	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52 06:18-06:24/6	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50 06:17-06:24/7	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:24/8	05:29	05:52 06:27-06:29/2	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:22/8	05:29	05:53 06:25-06:31/6	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:46 06:14-06:21/7	05:30	05:55 06:24-06:32/8	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45 06:16-06:20/4	05:30	05:56 06:25-06:33/8	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57 06:26-06:33/7	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59 06:28-06:34/6	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00 06:29-06:34/5	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:34/2	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:34/1	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	49	0	49	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: EAM_WT03 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:28/2	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:28/3	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:27/5	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:26/5	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:31-06:35/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:37/5	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:37/4	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06 06:34-06:38/4	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:38/2	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	19	0	19	1	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: EAM_WT05 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:40
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:39
6	08:49	08:16	07:21	07:12	06:11	05:32	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	247
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:50	08:24		07:32	17:54-17:59/5	07:23		06:20		05:36	21:06-21:13/7
	16:48	17:35		18:25	17:22-17:42/20	20:17		21:06		21:51	
2	08:50	08:23		07:30	17:51-18:01/10	07:21		06:18		05:36	21:08-21:13/5
	16:49	17:36		18:27	17:23-17:41/18	20:19		21:08		21:52	
3	08:50	08:21		07:28	17:50-18:03/13	07:19		06:16		05:35	
	16:50	17:38		18:28	17:25-17:39/14	20:20		21:10		21:53	
4	08:49	08:20		07:26	17:48-18:05/17	07:17	19:54-19:57/3	06:15		05:34	
	16:51	17:40		18:30	17:28-17:36/8	20:22		21:11		21:54	
5	08:49	08:18		07:24	17:47-18:06/19	07:14	19:53-19:58/5	06:13		05:34	
	16:53	17:42		18:32		20:24		21:13		21:55	
6	08:49	08:16		07:22	17:46-18:08/22	07:12	19:52-19:59/7	06:11		05:33	
	16:54	17:44		18:33		20:25		21:14		21:56	
7	08:48	08:15		07:19	17:46-18:10/24	07:10	19:51-20:01/10	06:09		05:32	
	16:55	17:45		18:35		20:27		21:16		21:57	
8	08:48	08:13		07:17	17:45-18:10/25	07:08	19:52-20:03/11	06:08		05:32	
	16:56	17:47		18:37		20:29		21:18		21:57	
9	08:48	08:11		07:15	17:46-18:10/24	07:06	19:52-20:05/13	06:06		05:31	
	16:58	17:49		18:39		20:30		21:19		21:58	
10	08:47	08:09		07:13	17:45-18:09/24	07:03	19:53-20:06/13	06:04		05:31	
	16:59	17:51		18:40		20:32		21:21		21:59	
11	08:47	08:08		07:11	17:45-18:08/23	07:01	19:53-20:03/10	06:03		05:31	
	17:00	17:53		18:42		20:34		21:22		22:00	
12	08:46	08:06		07:08	17:46-18:07/21	06:59	19:55-20:01/6	06:01		05:30	
	17:02	17:55		18:44		20:35		21:24		22:00	
13	08:45	08:04		07:06	17:47-18:06/19	06:57		05:59		05:30	
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:45	08:02		07:04	17:48-18:04/16	06:55		05:58		05:30	
	17:05	17:58		18:47		20:39		21:27		22:02	
15	08:44	08:00		07:02	17:50-18:02/12	06:53		05:56		05:30	
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	17:27-17:34/7	06:59		06:50		05:55		05:30	
	17:08	18:02		18:50		20:42		21:30		22:03	
17	08:42	07:57	17:25-17:36/11	06:57		06:48		05:54		05:29	
	17:09	18:04		18:52		20:43		21:31		22:03	
18	08:41	07:55	17:23-17:38/15	06:55		06:46		05:52	21:02-21:03/1	05:29	
	17:11	18:05		18:54		20:45		21:33		22:04	
19	08:40	07:53	17:22-17:40/18	06:53	18:29-18:31/2	06:44		05:51	21:02-21:04/2	05:30	
	17:12	18:07		18:56		20:47		21:34		22:04	
20	08:39	07:51	17:21-17:42/21	06:50	18:29-18:32/3	06:42		05:49	21:02-21:06/4	05:30	
	17:14	18:09		18:57		20:48		21:36		22:04	
21	08:38	07:49	17:21-17:44/23	06:48	18:27-18:33/6	06:40		05:48	21:01-21:06/5	05:30	
	17:16	18:11		18:59		20:50		21:37		22:04	
22	08:37	07:47	17:20-17:46/26	06:46	18:27-18:35/8	06:38		05:47	21:01-21:07/6	05:30	
	17:17	18:12		19:01		20:52		21:38		22:05	
23	08:36	07:45	17:20-17:48/28	06:44	18:28-18:37/9	06:36		05:46	21:01-21:09/8	05:30	
	17:19	18:14		19:02		20:53		21:40		22:05	
24	08:35	07:43	17:20-17:50/30	06:41	18:28-18:38/10	06:34		05:44	21:01-21:10/9	05:30	
	17:21	18:16		19:04		20:55		21:41		22:05	
25	08:34	07:41	17:20-17:52/32	06:39	18:30-18:36/6	06:32		05:43	21:01-21:11/10	05:31	
	17:22	18:18		19:06		20:57		21:42		22:05	
26	08:32	07:39	17:20-17:51/31	06:37		06:30		05:42	21:02-21:12/10	05:31	
	17:24	18:20		19:07		20:58		21:44		22:05	
27	08:31	07:36	17:21-17:45/24	06:35		06:28		05:41	21:02-21:13/11	05:32	
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34	17:21-17:43/22	06:32		06:26		05:40	21:02-21:14/12	05:32	
	17:28	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	21:04-21:16/12	05:33	
	17:29			20:12		21:03		21:47		22:05	
30	08:27			07:28		06:22		05:38	21:04-21:15/11	05:33	
	17:31			20:14		21:05		21:48		22:05	
31	08:26			07:26				05:37	21:05-21:14/9		
	17:33			20:15				21:50			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	288		378		78		110		12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:53-20:03/10	07:45 18:25-18:46/21	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11	06:59 19:51-20:03/12	07:46 18:25-18:47/22	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:50-20:03/13	07:48 18:23-18:46/23	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02 19:49-20:00/11	07:49 18:23-18:47/24	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03 19:49-19:58/9	07:51 18:22-18:47/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05 19:48-19:55/7	07:53 18:21-18:46/25	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:07 19:48-19:54/6	07:54 18:22-18:45/23	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08 19:49-19:51/2	07:56 18:22-18:43/21	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:58 18:22-18:40/18	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:16-21:20/4	06:23	07:11	07:59 18:23-18:38/15	07:52	08:37
	22:00	21:18	20:13	19:05 18:01-18:12/11	17:06	16:38
11	05:42 21:15-21:21/6	06:24	07:13	08:01 18:24-18:36/12	07:54	08:39
	21:59	21:16	20:11	19:03 17:58-18:14/16	17:04	16:38
12	05:43 21:14-21:22/8	06:26	07:14	08:02 18:26-18:34/8	07:56	08:40
	21:58	21:15	20:09	19:01 17:57-18:16/19	17:03	16:38
13	05:44 21:13-21:23/10	06:27	07:16	08:04 18:29-18:31/2	07:57	08:41
	21:57	21:13	20:06	18:59 17:54-18:16/22	17:01	16:38
14	05:45 21:13-21:24/11	06:29	07:18	08:06 17:53-18:17/24	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07 17:53-18:22/29	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09 17:52-18:23/31	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11 17:51-18:22/31	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13 17:51-18:20/29	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14 17:51-18:18/27	08:08	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16 17:52-18:16/24	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18 17:51-18:14/23	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19 17:52-18:12/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21 17:53-18:10/17	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 21:11-21:14/3	06:45	07:33 19:13-19:15/2	08:23 17:54-18:08/14	08:16	08:48
	21:45	20:51	19:41	18:36	16:48	16:41
25	05:59 21:12-21:14/2	06:46	07:35	07:24 16:56-17:06/10	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 16:59-17:04/5	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:32-18:41/9	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:30-18:44/14	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:27-18:45/18	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	125	6	157	591	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 17:00-17:05/5	07:32 17:57-17:59/2	07:23	06:20 20:37-20:38/1	05:36
	16:48	17:35 16:38-16:50/12	18:25	20:17	21:06	21:51
2	08:50	08:23 16:59-17:07/8	07:30 17:57-18:01/4	07:21	06:18 20:38-20:40/2	05:36
	16:49	17:36 16:40-16:48/8	18:27	20:19	21:08	21:52
3	08:50	08:21 16:58-17:09/11	07:28 17:57-18:03/6	07:19	06:16 20:39-20:41/2	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49	08:20 16:58-17:11/13	07:26 17:58-18:05/7	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49	08:18 16:58-17:13/15	07:24 17:58-18:06/8	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49	08:16 16:57-17:15/18	07:22 18:00-18:05/5	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48	08:15 16:57-17:16/19	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:57
8	08:48	08:13 16:58-17:19/21	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:18	21:57
9	08:48	08:11 16:59-17:20/21	07:15	07:06	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09 16:59-17:17/18	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47	08:08 17:00-17:16/16	07:11	07:01	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46	08:06 17:01-17:15/14	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45	08:04 17:03-17:13/10	07:06 18:17-18:20/3	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45	08:02 17:07-17:09/2	07:04 18:16-18:22/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:39	21:27	22:02
15	08:44	08:00	07:02 18:16-18:24/8	06:53	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:33-16:35/2	07:58	06:59 18:16-18:26/10	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:32-16:37/5	07:57	06:57 18:16-18:27/11	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:32-16:39/7	07:55	06:55 18:17-18:28/11	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:32-16:41/9	07:53	06:53 18:19-18:26/7	06:44 20:17-20:20/3	05:51	05:30
	17:12	18:07	18:56	20:47	21:34	22:04
20	08:39 16:32-16:43/11	07:51	06:50	06:42 20:17-20:22/5	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:31-16:44/13	07:49	06:48	06:40 20:16-20:23/7	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:31-16:46/15	07:47	06:46	06:38 20:16-20:25/9	05:47	05:30
	17:17	18:12	19:01	20:52	21:38	22:05
23	08:36 16:31-16:48/17	07:45	06:44	06:36 20:16-20:26/10	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:32-16:50/18	07:43	06:41	06:34 20:16-20:28/12	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:31-16:51/20	07:41	06:39	06:32 20:17-20:29/12	05:43	05:31
	17:22	18:18	19:06	20:57	21:42	22:05
26	08:32 16:32-16:53/21	07:39	06:37	06:30 20:18-20:27/9	05:42	05:31
	17:24	18:20	19:07	20:58	21:44	22:05
27	08:31 16:32-16:52/20	07:36	06:35	06:28 20:21-20:24/3	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 16:33-16:53/20	07:34	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 16:33-16:52/19		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:35-16:52/17		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 17:01-17:03/2		07:26		05:37	
	17:33 16:36-16:51/15		20:15		21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	231	211	88	70	5	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:57-18:58/1	07:37	16:29-16:47/18	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46		07:38	16:28-16:50/22	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:28-16:48/20	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:27-16:46/19	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:27-16:44/17	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17		07:05		07:53		07:45	16:28-16:42/14	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18		07:07		07:54		07:47	16:28-16:41/13	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20		07:08		07:56	18:35-18:42/7	07:49	16:29-16:39/10	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:50-20:51/1	07:10		07:58	18:32-18:40/8	07:51	16:30-16:38/8	08:36
	22:00	21:20		20:16		19:08		17:07	16:10-16:19/9	16:39
10	05:41	06:23	20:48-20:50/2	07:11		07:59	18:32-18:38/6	07:52	16:31-16:36/5	08:37
	22:00	21:18		20:13		19:05		17:06	16:09-16:21/12	16:38
11	05:42	06:24	20:46-20:48/2	07:13		08:01	18:31-18:36/5	07:54	16:33-16:35/2	08:38
	21:59	21:16		20:11		19:03		17:04	16:07-16:23/16	16:38
12	05:43	06:26		07:14		08:02	18:30-18:33/3	07:56	16:06-16:23/17	08:40
	21:58	21:15		20:09		19:01		17:03		16:38
13	05:44	06:27		07:16		08:04		07:57	16:05-16:24/19	08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29		07:18		08:06		07:59	16:05-16:24/19	08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30		07:19		08:07		08:01	16:05-16:25/20	08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:27-20:32/5	07:21		08:09		08:03	16:05-16:26/21	08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:24-20:34/10	07:22		08:11		08:04	16:05-16:25/20	08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:23-20:35/12	07:24		08:13		08:06	16:06-16:24/18	08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:22-20:33/11	07:25		08:14		08:08	16:05-16:22/17	08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:22-20:32/10	07:27		08:16		08:09	16:06-16:21/15	08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:21-20:29/8	07:29		08:18		08:11	16:07-16:20/13	08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:21-20:28/7	07:30		08:19		08:12	16:08-16:19/11	08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:20-20:25/5	07:32		08:21		08:14	16:08-16:17/9	08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:21-20:24/3	07:33	19:04-19:08/4	08:23		08:16	16:09-16:16/7	08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46		07:35	19:00-19:10/10	07:24		08:17	16:10-16:15/5	08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48		07:37	18:59-19:10/11	07:26		08:19	16:11-16:14/3	08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49		07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51		07:40	18:57-19:05/8	07:30	16:35-16:40/5	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:32-16:43/11	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:56-19:00/4	07:33	16:30-16:45/15	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:29-16:46/17			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	76		53		78		399		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	07:45-07:51/6	06:20		05:36	06:24-06:41/17
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21	07:46-07:48/2	06:18		05:35	06:25-06:41/16
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	06:25-06:40/15
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:14		05:34	06:25-06:40/15
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	06:27-06:40/13
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12	07:34-07:36/2	06:11		05:33	06:27-06:39/12
	16:54	17:43	18:33		20:25		21:14		21:56	
7	08:48	08:14	07:19	07:44-07:53/9	07:10	07:32-07:37/5	06:09		05:32	06:28-06:39/11
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:42-07:55/13	07:08	07:30-07:36/6	06:07		05:32	06:00-06:02/2
	16:56	17:47	18:37		20:28		21:17		21:57	06:28-06:38/10
9	08:47	08:11	07:15	07:41-07:56/15	07:05	07:28-07:35/7	06:06		05:31	06:00-06:03/3
	16:57	17:49	18:38		20:30		21:19		21:58	06:29-06:38/9
10	08:47	08:09	07:13	07:39-07:56/17	07:03	07:30-07:33/3	06:04		05:31	06:00-06:04/4
	16:59	17:51	18:40		20:32		21:21		21:59	06:31-06:37/6
11	08:46	08:08	07:10	07:39-07:56/17	07:01		06:02		05:30	05:59-06:04/5
	17:00	17:53	18:42		20:33		21:22		22:00	06:31-06:36/5
12	08:46	08:06	07:08	07:39-07:56/17	06:59		06:01		05:30	05:59-06:05/6
	17:02	17:54	18:44		20:35		21:24		22:00	06:33-06:35/2
13	08:45	08:04	07:06	07:38-07:55/17	06:57		05:59		05:30	05:59-06:06/7
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:38-07:54/16	06:54		05:58	06:29-06:34/5	05:30	05:59-06:06/7
	17:04	17:58	18:47		20:38		21:27		22:01	
15	08:44	08:00	07:01	07:39-07:53/14	06:52		05:56	06:27-06:37/10	05:29	05:59-06:07/8
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:41-07:51/10	06:50		05:55	06:26-06:38/12	05:29	05:59-06:07/8
	17:07	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:44-07:46/2	06:48		05:53	06:24-06:39/15	05:29	05:59-06:07/8
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55		06:46		05:52	06:24-06:40/16	05:29	05:59-06:07/8
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:52		06:44		05:51	06:23-06:40/17	05:29	05:59-06:08/9
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50		06:42		05:49	06:23-06:41/18	05:29	05:59-06:08/9
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48		06:40		05:48	06:22-06:41/19	05:30	05:59-06:08/9
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	06:22-06:41/19	05:30	06:00-06:09/9
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43		06:36		05:45	06:22-06:41/19	05:30	06:00-06:09/9
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:43	06:41		06:34		05:44	06:22-06:42/20	05:30	06:00-06:09/9
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39		06:32		05:43	06:22-06:42/20	05:31	06:01-06:09/8
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:22-06:42/20	05:31	06:01-06:09/8
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:22-06:42/20	05:31	06:01-06:09/8
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:22-06:41/19	05:32	06:02-06:09/7
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	07:52-07:53/1	06:24		05:39	06:22-06:41/19	05:32	06:02-06:09/7
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	07:50-07:53/3	06:22		05:38	06:23-06:42/19	05:33	06:03-06:09/6
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	07:48-07:53/5			05:37	06:24-06:41/17		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	156		31		304		295	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:10/6	06:09	06:57	07:44 08:17-08:35/18	07:36	08:26
	22:04 06:37-06:41/4	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:09/5	06:10	06:59 07:28-07:31/3	07:46 08:17-08:35/18	07:38	08:27
	22:04 06:35-06:41/6	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:09/4	06:12	07:00 07:26-07:33/7	07:48 08:17-08:34/17	07:40	08:29
	22:04 06:35-06:43/8	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:09/3	06:13	07:02 07:27-07:33/6	07:49 08:17-08:33/16	07:42	08:30
	22:03 06:35-06:44/9	21:29	20:27	19:19	17:16	16:40
5	05:36 06:06-06:07/1	06:15	07:03 07:29-07:34/5	07:51 08:18-08:32/14	07:43	08:31
	22:03 06:33-06:44/11	21:27	20:24	19:16	17:14	16:40
6	05:37 06:33-06:45/12	06:16	07:05 07:30-07:33/3	07:52 08:19-08:30/11	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:33-06:46/13	06:18	07:06	07:54 08:21-08:28/7	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:33-06:47/14	06:19	07:08	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:33-06:48/15	06:21	07:10	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:33-06:48/15	06:23	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:32-06:49/17	06:24	07:13 07:38-07:44/6	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:32-06:49/17	06:26	07:14 07:39-07:44/5	08:02	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:32-06:50/18	06:27	07:16 07:41-07:44/3	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:32-06:50/18	06:29	07:17 07:42-07:43/1	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 06:32-06:51/19	06:30	07:19	08:07	08:01	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:32-06:51/19	06:32	07:21	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:31-06:51/20	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:31-06:51/20	06:35	07:24	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51 06:31-06:51/20	06:37	07:25	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:31-06:51/20	06:38	07:27	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 06:32-06:52/20	06:40	07:28	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 06:32-06:51/19	06:41	07:30	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:32-06:51/19	06:43	07:32	08:21	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:33-06:50/17	06:44	07:33	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:34-06:51/17	06:46	07:35	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:34-06:50/16	06:48	07:36	07:26	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02 06:35-06:49/14	06:49	07:38 08:24-08:32/8	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:37-06:48/11	06:51	07:40 08:21-08:33/12	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:38-06:46/8	06:52	07:41 08:20-08:34/14	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43 08:18-08:34/16	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	455	0	89	101	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May	June	
1	08:50	08:24		07:32	08:26-08:44/18	07:23		06:20	05:36	
	16:48	17:35		18:25		20:17		21:06	21:51	
2	08:50	08:22		07:30	08:28-08:42/14	07:21	07:43-07:46/3	06:18	05:35	
	16:49	17:36		18:26		20:19		21:08	21:52	
3	08:49	08:21		07:28	08:30-08:40/10	07:19	07:41-07:47/6	06:16	05:35	
	16:50	17:38		18:28		20:20		21:09	21:53	
4	08:49	08:19		07:26		07:16	07:39-07:47/8	06:14	05:34	
	16:51	17:40		18:30		20:22		21:11	21:54	
5	08:49	08:18		07:24		07:14	07:37-07:47/10	06:13	05:33	
	16:52	17:42		18:32		20:24		21:13	21:55	
6	08:49	08:16		07:21		07:12	07:35-07:46/11	06:11	05:33	
	16:54	17:44		18:33		20:25		21:14	21:56	
7	08:48	08:14		07:19		07:10	07:36-07:45/9	06:09	05:32	
	16:55	17:45		18:35		20:27		21:16	21:56	
8	08:48	08:13		07:17		07:08	07:37-07:43/6	06:07	05:32	06:24-06:27/3
	16:56	17:47		18:37		20:28		21:17	21:57	
9	08:47	08:11		07:15		07:05		06:06	05:31	06:22-06:30/8
	16:57	17:49		18:38		20:30		21:19	21:58	
10	08:47	08:09		07:13		07:03		06:04	05:31	06:22-06:31/9
	16:59	17:51		18:40		20:32		21:21	21:59	
11	08:46	08:08		07:10		07:01		06:02	05:30	06:20-06:32/12
	17:00	17:53		18:42		20:33		21:22	22:00	
12	08:46	08:06		07:08		06:59		06:01	05:30	06:20-06:33/13
	17:02	17:54		18:44		20:35		21:24	22:00	
13	08:45	08:04		07:06		06:57		05:59	05:30	06:20-06:34/14
	17:03	17:56		18:45		20:37		21:25	22:01	
14	08:44	08:02		07:04		06:54		05:58	05:30	06:20-06:34/14
	17:04	17:58		18:47		20:38		21:27	22:02	
15	08:44	08:00		07:01		06:52		05:56	05:29	06:20-06:35/15
	17:06	18:00		18:49		20:40		21:28	22:02	
16	08:43	07:58	08:34-08:40/6	06:59		06:50		05:55	05:29	06:20-06:36/16
	17:08	18:02		18:50		20:42		21:30	22:03	
17	08:42	07:56	08:31-08:43/12	06:57		06:48		05:53	05:29	06:20-06:36/16
	17:09	18:03		18:52		20:43		21:31	22:03	
18	08:41	07:55	08:29-08:45/16	06:55		06:46		05:52	05:29	06:20-06:36/16
	17:11	18:05		18:54		20:45		21:33	22:03	
19	08:40	07:53	08:28-08:46/18	06:52		06:44		05:51	05:29	06:20-06:37/17
	17:12	18:07		18:55		20:47		21:34	22:04	
20	08:39	07:51	08:26-08:47/21	06:50		06:42		05:49	05:29	06:20-06:37/17
	17:14	18:09		18:57		20:48		21:35	22:04	
21	08:38	07:49	08:26-08:48/22	06:48		06:40		05:48	05:30	06:20-06:37/17
	17:16	18:11		18:59		20:50		21:37	22:04	
22	08:37	07:47	08:25-08:48/23	06:46		06:38		05:47	05:30	06:21-06:38/17
	17:17	18:12		19:00		20:52		21:38	22:05	
23	08:36	07:45	08:25-08:49/24	06:43		06:36		05:45	05:30	06:21-06:38/17
	17:19	18:14		19:02		20:53		21:39	22:05	
24	08:35	07:43	08:25-08:49/24	06:41	07:04-07:05/1	06:34		05:44	05:30	06:21-06:38/17
	17:21	18:16		19:04		20:55		21:41	22:05	
25	08:34	07:40	08:25-08:48/23	06:39	07:01-07:05/4	06:32		05:43	05:31	06:21-06:37/16
	17:22	18:18		19:05		20:56		21:42	22:05	
26	08:32	07:38	08:25-08:48/23	06:37	06:59-07:05/6	06:30		05:42	05:31	06:22-06:38/16
	17:24	18:19		19:07		20:58		21:43	22:05	
27	08:31	07:36	08:26-08:47/21	06:34	06:57-07:05/8	06:28		05:41	05:31	06:22-06:37/15
	17:26	18:21		19:09		21:00		21:45	22:05	
28	08:30	07:34	08:25-08:46/21	06:32	06:54-07:04/10	06:26		05:40	05:32	06:23-06:38/15
	17:27	18:23		19:10		21:01		21:46	22:05	
29	08:28			07:30	07:55-08:03/8	06:24		05:39	05:32	06:23-06:37/14
	17:29			20:12		21:03		21:47	22:05	
30	08:27			07:28	07:58-08:00/2	06:22		05:38	05:33	06:24-06:37/13
	17:31			20:14		21:05		21:48	22:04	
31	08:25			07:25				05:37		
	17:33			20:15				21:49		
Potential sun hours	262	279		367		415		482	495	
Sum of minutes with flicker	0	254		81		53		0	327	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:27-06:36/9	06:12	07:00	07:48	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:29-06:35/6	06:13	07:02 07:34-07:40/6	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:36	06:15	07:03 07:33-07:42/9	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05 07:31-07:42/11	07:52	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06 07:32-07:42/10	07:54	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39	06:19	07:08 07:33-07:41/8	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 07:35-07:41/6	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41	06:23	07:11 07:36-07:39/3	07:59 09:07-09:11/4	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 09:03-09:15/12	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 09:00-09:16/16	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:59-09:18/19	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 07:46-07:53/7	08:06 08:58-09:19/21	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:45-07:54/9	08:07 08:58-09:20/22	08:01	08:42
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 07:45-07:54/9	08:09 08:56-09:19/23	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 07:47-07:54/7	08:11 08:56-09:20/24	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 07:49-07:54/5	08:12 08:56-09:20/24	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37	07:25 07:50-07:52/2	08:14 08:56-09:20/24	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 08:57-09:20/23	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 08:56-09:18/22	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:57-09:17/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:58-09:16/18	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:00-09:15/15	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:02-08:13/11	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:07-08:09/2	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	37	0	92	300	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April	May		June	
1	08:50	08:24		07:32	07:59-08:09/10	07:23	06:20		05:36	18:54-19:56/62
	16:48	17:35		18:25		20:17	21:06		21:51	
2	08:50	08:23		07:30	07:57-08:11/14	07:21	06:18		05:36	18:55-19:57/62
	16:49	17:36		18:26		20:19	21:08		21:52	
3	08:49	08:21		07:28	07:56-08:12/16	07:19	06:16		05:35	18:54-19:57/63
	16:50	17:38		18:28		20:20	21:09		21:53	
4	08:49	08:19		07:26	07:55-08:13/18	07:16	06:15		05:34	18:54-19:58/64
	16:51	17:40		18:30		20:22	21:11		21:54	
5	08:49	08:18		07:24	07:54-08:12/18	07:14	06:13		05:33	18:54-19:59/65
	16:52	17:42		18:32		20:24	21:13		21:55	
6	08:49	08:16		07:21	07:53-08:12/19	07:12	06:11		05:33	18:54-19:59/65
	16:54	17:44		18:33		20:25	21:14		21:56	
7	08:48	08:15		07:19	07:53-08:12/19	07:10	06:09		05:32	18:54-20:00/66
	16:55	17:45		18:35		20:27	21:16		21:56	
8	08:48	08:13		07:17	07:54-08:12/18	07:08	06:08		05:32	18:53-20:00/67
	16:56	17:47		18:37		20:29	21:17		21:57	
9	08:48	08:11		07:15	07:55-08:11/16	07:05	06:06		05:31	18:54-20:00/66
	16:57	17:49		18:39		20:30	21:19		21:58	
10	08:47	08:09		07:13	07:55-08:08/13	07:03	06:04		05:31	18:54-20:01/67
	16:59	17:51		18:40		20:32	21:21		21:59	
11	08:46	08:08		07:10	07:56-08:06/10	07:01	06:03		05:30	18:53-20:01/68
	17:00	17:53		18:42		20:33	21:22		22:00	
12	08:46	08:06		07:08	08:01-08:02/1	06:59	06:01		05:30	18:54-20:01/67
	17:02	17:54		18:44		20:35	21:24		22:00	
13	08:45	08:04		07:06		06:57	05:59		05:30	18:54-20:02/68
	17:03	17:56		18:45		20:37	21:25		22:01	
14	08:44	08:02		07:04	07:35-07:45/10	06:55	05:58	19:16-19:30/14	05:30	18:54-20:02/68
	17:05	17:58		18:47		20:38	21:27		22:02	
15	08:44	08:00		07:02	07:32-07:47/15	06:52	05:56	19:12-19:35/23	05:30	18:54-20:03/69
	17:06	18:00		18:49		20:40	21:28		22:02	
16	08:43	07:58		06:59	07:31-07:48/17	06:50	05:55	19:10-19:38/28	05:29	18:54-20:03/69
	17:08	18:02		18:50		20:42	21:30		22:03	
17	08:42	07:56		06:57	07:29-07:48/19	06:48	05:53	19:07-19:39/32	05:29	18:55-20:03/68
	17:09	18:03		18:52		20:43	21:31		22:03	
18	08:41	07:55		06:55	07:28-07:49/21	06:46	05:52	19:05-19:41/36	05:29	18:55-20:04/69
	17:11	18:05		18:54		20:45	21:33		22:03	
19	08:40	07:53		06:53	07:27-07:49/22	06:44	05:51	19:04-19:43/39	05:29	18:55-20:04/69
	17:12	18:07		18:55		20:47	21:34		22:04	
20	08:39	07:51		06:50	07:27-07:49/22	06:42	05:49	19:03-19:45/42	05:29	18:55-20:04/69
	17:14	18:09		18:57		20:48	21:35		22:04	
21	08:38	07:49		06:48	07:26-07:48/22	06:40	05:48	19:01-19:45/44	05:30	18:55-20:04/69
	17:16	18:11		18:59		20:50	21:37		22:04	
22	08:37	07:47		06:46	07:26-07:48/22	06:38	05:47	19:00-19:47/47	05:30	18:56-20:05/69
	17:17	18:12		19:00		20:52	21:38		22:05	
23	08:36	07:45		06:44	07:27-07:47/20	06:36	05:45	18:59-19:48/49	05:30	18:56-20:05/69
	17:19	18:14		19:02		20:53	21:40		22:05	
24	08:35	07:43		06:41	07:28-07:46/18	06:34	05:44	18:58-19:49/51	05:30	18:56-20:05/69
	17:21	18:16		19:04		20:55	21:41		22:05	
25	08:34	07:41		06:39	07:28-07:43/15	06:32	05:43	18:58-19:50/52	05:31	18:56-20:05/69
	17:22	18:18		19:05		20:56	21:42		22:05	
26	08:32	07:38		06:37	07:30-07:41/11	06:30	05:42	18:57-19:51/54	05:31	18:57-20:05/68
	17:24	18:19		19:07		20:58	21:43		22:05	
27	08:31	07:36		06:34	07:34-07:36/2	06:28	05:41	18:57-19:52/55	05:31	18:56-20:05/69
	17:26	18:21		19:09		21:00	21:45		22:05	
28	08:30	07:34	08:03-08:05/2	06:32		06:26	05:40	18:56-19:52/56	05:32	18:57-20:06/69
	17:27	18:23		19:10		21:01	21:46		22:05	
29	08:28			07:30		06:24	05:39	18:55-19:53/58	05:32	18:57-20:05/68
	17:29			20:12		21:03	21:47		22:05	
30	08:27			07:28		06:22	05:38	18:56-19:55/59	05:33	18:58-20:06/68
	17:31			20:14		21:05	21:48		22:04	
31	08:25			07:25			05:37	18:55-19:55/60		
	17:33			20:15			21:49			
Potential sun hours	262	279		367		415	482		495	
Sum of minutes with flicker	0	2		408		0	799		2018	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:58-20:06/68	06:09	06:57	07:44	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 18:58-20:05/67	06:10	06:59	07:46 08:36-08:44/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 18:59-20:06/67	06:12	07:00	07:48 08:33-08:45/12	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 18:59-20:06/67	06:13	07:02	07:49 08:32-08:47/15	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 18:59-20:05/66	06:15	07:03	07:51 08:31-08:48/17	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 19:00-20:05/65	06:16	07:05	07:53 08:30-08:48/18	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 19:00-20:05/65	06:18	07:06	07:54 08:29-08:48/19	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 19:01-20:05/64	06:20	07:08	07:56 08:29-08:48/19	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 19:02-20:05/63	06:21	07:10	07:57 08:29-08:47/18	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 19:02-20:05/63	06:23	07:11	07:59 08:29-08:46/17	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 19:03-20:04/61	06:24	07:13	08:01 08:30-08:46/16	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 19:03-20:04/61	06:26	07:14	08:02 08:32-08:44/12	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 19:04-20:04/60	06:27	07:16	08:04 08:33-08:41/8	07:57	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45 19:04-20:03/59	06:29	07:17	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 19:05-20:02/57	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47 19:06-20:02/56	06:32	07:21	08:09	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49 19:06-20:01/55	06:33	07:22 08:19-08:29/10	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 19:07-20:00/53	06:35	07:24 08:16-08:30/14	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51 19:08-19:59/51	06:37	07:25 08:15-08:32/17	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 19:08-19:58/50	06:38	07:27 08:14-08:33/19	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 19:10-19:58/48	06:40	07:28 08:12-08:33/21	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 19:11-19:57/46	06:41	07:30 08:12-08:34/22	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 19:12-19:55/43	06:43	07:32 08:11-08:33/22	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 19:13-19:54/41	06:44	07:33 08:11-08:33/22	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 19:15-19:53/38	06:46	07:35 08:10-08:32/22	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 19:16-19:51/35	06:48	07:36 08:11-08:31/20	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 19:18-19:49/31	06:49	07:38 08:12-08:30/18	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 19:21-19:47/26	06:51	07:40 08:12-08:28/16	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 19:24-19:44/20	06:52	07:41 08:15-08:27/12	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 19:28-19:38/10	06:54	07:43 08:17-08:22/5	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	1556	0	240	179	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:11-15:27/16 16:48	08:24 17:35	07:32 08:32-09:09/37 18:25	07:23 19:02-19:30/28 20:17	06:20 21:06	05:36 06:04-06:06/2 21:51
2	08:50 15:12-15:27/15 16:49	08:23 17:36	07:30 08:32-09:09/37 18:26	07:21 19:02-19:31/29 20:19	06:18 21:08	05:36 06:04-06:07/3 21:52
3	08:49 15:14-15:27/13 16:50	08:21 09:07-09:09/2 17:38	07:28 08:32-09:09/37 18:28	07:19 19:01-19:31/30 20:20	06:16 21:09	05:35 06:03-06:06/3 21:53
4	08:49 15:14-15:27/13 16:51	08:19 09:03-09:14/11 17:40	07:26 08:32-09:09/37 18:30	07:17 19:01-19:31/30 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 15:16-15:27/11 16:52	08:18 09:01-09:16/15 17:42	07:24 08:31-09:07/36 18:32	07:14 19:01-19:31/30 20:24	06:13 21:13	05:33 06:02-06:06/4 21:55
6	08:49 15:18-15:25/7 16:54	08:16 08:59-09:17/18 17:44	07:21 08:31-09:07/36 18:33	07:12 19:01-19:30/29 20:25	06:11 21:14	05:33 06:01-06:05/4 21:56
7	08:48 15:21-15:24/3 16:55	08:15 08:57-09:18/21 17:45	07:19 08:32-09:06/34 18:35	07:10 19:01-19:29/28 20:27	06:09 21:16	05:32 06:01-06:05/4 21:56
8	08:48 16:56	08:13 08:57-09:20/23 17:47	07:17 08:32-09:06/34 18:37	07:08 19:02-19:28/26 20:29	06:08 21:17	05:32 06:02-06:05/3 21:57
9	08:48 16:57	08:11 08:56-09:21/25 17:49	07:15 08:33-09:05/32 18:39	07:05 19:02-19:28/26 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 08:55-09:21/26 17:51	07:13 08:33-09:02/29 18:40	07:03 19:03-19:26/23 20:32	06:04 21:21	05:31 21:59
11	08:46 17:00	08:08 08:55-09:22/27 17:53	07:10 08:34-09:01/27 18:42	07:01 19:04-19:24/20 20:33	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 08:54-09:22/28 17:54	07:08 08:36-08:59/23 18:44	06:59 19:06-19:22/16 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 08:54-09:22/28 17:56	07:06 08:38-08:56/18 18:45	06:57 19:08-19:20/12 20:37	05:59 21:25	05:30 22:01
14	08:44 17:05	08:02 08:54-09:22/28 17:58	07:04 08:40-08:52/12 18:47	06:55 20:38	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 08:54-09:22/28 18:00	07:02 18:49	06:52 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 08:54-09:21/27 18:02	06:59 18:50	06:50 20:42	05:55 21:30	05:29 22:03
17	08:42 17:09	07:56 08:55-09:21/26 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03
18	08:41 17:11	07:55 08:55-09:20/25 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:29 22:03
19	08:40 17:12	07:53 08:51-08:53/2 18:07 08:56-09:19/23	06:53 18:55	06:44 20:47	05:51 21:34	05:29 22:04
20	08:39 17:14	07:51 08:45-09:17/32 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04
21	08:38 17:16	07:49 08:42-09:16/34 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04
22	08:37 17:17	07:47 08:40-09:13/33 18:12	06:46 19:00	06:38 20:52	05:47 21:38	05:30 22:05
23	08:36 17:19	07:45 08:38-09:09/31 18:14	06:44 19:02	06:36 20:53	05:46 21:40	05:30 22:05
24	08:35 17:21	07:43 08:37-09:06/29 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05
25	08:34 17:22	07:41 08:36-09:07/31 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05
26	08:32 17:24	07:38 08:35-09:08/33 18:19	06:37 18:15-18:22/7 19:07	06:30 20:58	05:42 21:43	05:31 22:05
27	08:31 17:26	07:36 08:34-09:09/35 18:21	06:34 18:11-18:25/14 19:09	06:28 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 08:32-09:08/36 18:23	06:32 18:08-18:26/18 19:10	06:26 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 19:06-19:28/22 20:12	06:24 21:03	05:39 21:47	05:33 22:05
30	08:27 17:31		07:28 19:05-19:30/25 20:14	06:22 21:05	05:38 21:48	05:33 22:04
31	08:26 17:33		07:25 19:04-19:31/27 20:15		05:37 06:05-06:06/1 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	78	677	542	327	1	27

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:04-19:24/20	07:44 09:15-09:36/21	07:37 08:25-08:51/26	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:10	06:59 19:01-19:24/23	07:46 09:14-09:39/25	07:38 08:26-08:50/24	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:00-19:26/26	07:48 09:11-09:39/28	07:40 08:27-08:50/23	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02 18:59-19:25/26	07:49 09:10-09:41/31	07:42 08:27-08:48/21	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:11/4	06:15	07:03 18:58-19:26/28	07:51 09:09-09:42/33	07:44 08:29-08:47/18	08:31 15:06-15:09/3
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:11/4	06:16	07:05 18:57-19:26/29	07:53 09:08-09:42/34	07:45 08:31-08:46/15	08:33 15:04-15:11/7
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:12/4	06:18	07:06 18:57-19:26/29	07:54 09:07-09:43/36	07:47 08:33-08:44/11	08:34 15:04-15:14/10
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 18:55-19:25/30	07:56 09:07-09:43/36	07:49	08:35 15:03-15:15/12
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 18:56-19:25/29	07:57 09:06-09:43/37	07:50	08:36 15:02-15:16/14
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:14/3	06:23	07:11 18:55-19:24/29	07:59 09:06-09:43/37	07:52	08:37 15:02-15:16/14
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:14/2	06:24	07:13 18:55-19:23/28	08:01 09:06-09:43/37	07:54	08:38 15:01-15:17/16
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:15/2	06:26	07:14 18:55-19:22/27	08:02 09:06-09:43/37	07:56	08:39 15:01-15:18/17
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:15/1	06:27	07:16 18:56-19:21/25	08:04 09:05-09:42/37	07:57	08:40 15:01-15:19/18
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 18:56-19:19/23	08:06 09:06-09:41/35	07:59	08:41 15:02-15:19/17
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 18:58-19:17/19	08:07 09:07-09:41/34	08:01	08:42 15:02-15:20/18
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 18:59-19:14/15	08:09 09:06-09:39/33	08:02	08:43 15:02-15:21/19
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:33	07:22 19:02-19:11/9	08:11 09:07-09:38/31	08:04	08:44 15:03-15:22/19
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 09:09-09:37/28	08:06	08:45 15:03-15:22/19
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14 09:10-09:42/32	08:07	08:45 15:03-15:23/20
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 09:12-09:45/33	08:09	08:46 15:04-15:23/19
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:18 09:13-09:47/34	08:11	08:47 15:04-15:23/19
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 09:17-09:48/31	08:12	08:47 15:05-15:24/19
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 09:26-09:50/24	08:14	08:48 15:05-15:24/19
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:25-09:51/26	08:16	08:48 15:05-15:24/19
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:25-08:51/26	08:17	08:48 15:06-15:26/20
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:25-08:52/27	08:19	08:49 15:07-15:26/19
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 08:23-08:51/28	08:20	08:49 15:07-15:26/19
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 08:23-08:51/28	08:22	08:49 15:08-15:26/18
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 09:22-09:31/9	07:31 08:24-08:52/28	08:23	08:49 15:08-15:26/18
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:09-19:21/12	07:43 09:17-09:34/17	07:33 08:24-08:52/28	08:25	08:50 15:09-15:27/18
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55 19:05-19:22/17		07:35 08:24-08:51/27		08:50 15:10-15:27/17
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	27	29	441	962	138	447

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:49-16:06/17	08:24	07:32	07:23	06:20 19:47-20:12/25	05:36
	16:48 11:36-12:20/44	17:35	18:25	20:17	21:06	21:51
2	08:50 15:50-16:06/16	08:23	07:30	07:21	06:18 19:47-20:11/24	05:36 06:04-06:06/2
	16:49 11:37-12:21/44	17:36	18:26	20:19	21:08	21:52
3	08:49 15:51-16:07/16	08:21	07:28	07:19	06:16 19:47-20:10/23	05:35 06:03-06:06/3
	16:50 11:38-12:21/43	17:38	18:28	20:20	21:10	21:53
4	08:49 15:51-16:07/16	08:19	07:26	07:17	06:15 19:49-20:10/21	05:34 06:02-06:06/4
	16:51 11:37-12:21/44	17:40	18:30	20:22	21:11	21:54
5	08:49 15:52-16:07/15	08:18	07:24	07:14	06:13 19:50-20:09/19	05:33 06:02-06:06/4
	16:52 11:38-12:22/44	17:42	18:32	20:24	21:13	21:55
6	08:49 15:52-16:07/15	08:16	07:21 17:59-18:02/3	07:12	06:11 19:50-20:07/17	05:33 06:01-06:06/5
	16:54 11:39-12:21/42	17:44	18:33	20:25	21:14	21:56
7	08:48 15:53-16:08/15	08:15	07:19 17:56-18:06/10	07:10	06:09 19:53-20:06/13	05:32 06:01-06:07/6
	16:55 11:40-12:22/42	17:45	18:35	20:27	21:16	21:56
8	08:48 15:53-16:07/14	08:13	07:17 17:54-18:08/14	07:08	06:08 19:54-20:04/10	05:32 06:01-06:07/6
	16:56 11:40-12:22/42	17:47	18:37	20:29	21:17	21:57
9	08:48 15:55-16:08/13	08:11	07:15 17:52-18:08/16	07:05	06:06	05:31 06:00-06:07/7
	16:58 11:41-12:22/41	17:49	18:39	20:30	21:19	21:58
10	08:47 15:55-16:08/13	08:09	07:13 17:51-18:09/18	07:03	06:04	05:31 06:00-06:07/7
	16:59 11:42-12:22/40	17:51	18:40	20:32	21:21	21:59
11	08:46 15:56-16:07/11	08:08	07:10 17:51-18:09/18	07:01	06:03	05:31 06:00-06:08/8
	17:00 11:42-12:21/39	17:53	18:42	20:34	21:22	22:00
12	08:46 15:58-16:07/9	08:06	07:08 17:51-18:09/18	06:59	06:01	05:30 05:59-06:07/8
	17:02 11:44-12:22/38	17:54	18:44	20:35	21:24	22:00
13	08:45 16:00-16:06/6	08:04	07:06 17:50-18:08/18	06:57	05:59	05:30 05:59-06:07/8
	17:03 11:45-12:22/37	17:56	18:45	20:37	21:25	22:01
14	08:44 11:46-12:21/35	08:02	07:04 17:51-18:08/17	06:55	05:58	05:30 05:59-06:08/9
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:47-12:21/34	08:00	07:02 17:52-18:07/15	06:52	05:56	05:30 05:59-06:08/9
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:48-12:20/32	07:58	06:59 17:53-18:06/13	06:50	05:55	05:29 05:59-06:08/9
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:49-12:19/30	07:57	06:57 17:55-18:02/7	06:48	05:53	05:29 05:59-06:08/9
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:51-12:18/27	07:55	06:55	06:46	05:52	05:29 05:59-06:08/9
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:53-12:17/24	07:53	06:53	06:44 19:56-20:06/10	05:51	05:29 05:59-06:08/9
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:55-12:16/21	07:51	06:50	06:42 19:53-20:09/16	05:49	05:30 05:59-06:08/9
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:57-12:12/15	07:49	06:48	06:40 19:52-20:10/18	05:48	05:30 05:59-06:08/9
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 12:03-12:05/2	07:47	06:46	06:38 19:50-20:11/21	05:47	05:30 06:00-06:09/9
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:44	06:36 19:49-20:12/23	05:46	05:30 06:00-06:09/9
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41	06:34 19:48-20:13/25	05:44	05:30 06:00-06:09/9
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:41	06:39	06:32 19:47-20:13/26	05:43	05:31 06:01-06:10/9
	17:22	18:18	19:05	20:57	21:42	22:05
26	08:32	07:38	06:37	06:30 19:47-20:13/26	05:42	05:31 06:01-06:10/9
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36	06:35	06:28 19:46-20:13/27	05:41	05:32 06:02-06:11/9
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32	06:26 19:46-20:13/27	05:40	05:32 06:02-06:11/9
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24 19:47-20:13/26	05:39	05:33 06:03-06:11/8
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22 19:47-20:13/26	05:38	05:33 06:03-06:11/8
	17:31		20:14	21:05	21:48	22:04
31	08:26		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	936	0	167	271	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:12/8	06:09	06:57	07:44 18:30-18:48/18	07:37	08:26 15:38-15:49/11
	22:04	21:34	20:33	19:25	17:21	16:42 11:24-12:04/40
2	05:34 06:04-06:12/8	06:10	06:59	07:46 18:30-18:48/18	07:38	08:27 15:38-15:51/13
	22:04	21:32	20:31	19:23	17:19	16:41 11:25-12:05/40
3	05:35 06:05-06:12/7	06:12	07:00	07:48 18:29-18:47/18	07:40	08:29 15:38-15:51/13
	22:04	21:30	20:29	19:21	17:17	16:41 11:24-12:05/41
4	05:36 06:06-06:13/7	06:13 20:07-20:11/4	07:02	07:49 18:30-18:46/16	07:42	08:30 15:38-15:52/14
	22:03	21:29	20:27	19:19	17:16	16:40 11:25-12:07/42
5	05:37 06:07-06:13/6	06:15 20:04-20:15/11	07:03	07:51 18:30-18:45/15	07:44	08:31 15:38-15:53/15
	22:03	21:27	20:24	19:16	17:14	16:40 11:25-12:07/42
6	05:37 06:07-06:12/5	06:17 20:01-20:16/15	07:05	07:53 18:31-18:43/12	07:45	08:33 15:38-15:53/15
	22:02	21:25	20:22	19:14	17:12	16:39 11:25-12:07/42
7	05:38 06:08-06:13/5	06:18 20:00-20:18/18	07:06	07:54 18:33-18:41/8	07:47	08:34 15:39-15:54/15
	22:02	21:24	20:20	19:12	17:11	16:39 11:26-12:09/43
8	05:39 06:09-06:13/4	06:20 19:59-20:19/20	07:08	07:56	07:49	08:35 15:39-15:55/16
	22:01	21:22	20:18	19:10	17:09	16:39 11:26-12:09/43
9	05:40 06:10-06:13/3	06:21 19:57-20:19/22	07:10	07:57	07:50	08:36 15:39-15:55/16
	22:00	21:20	20:15	19:08	17:07	16:38 11:26-12:09/43
10	05:41 06:11-06:13/2	06:23 19:57-20:20/23	07:11	07:59	07:52	08:37 15:39-15:55/16
	22:00	21:18	20:13	19:05	17:06	16:38 11:26-12:10/44
11	05:42 06:12-06:13/1	06:24 19:55-20:20/25	07:13	08:01	07:54	08:38 15:39-15:56/17
	21:59	21:16	20:11	19:03	17:04	16:38 11:26-12:10/44
12	05:43	06:26 19:55-20:21/26	07:14	08:02	07:56	08:39 15:40-15:56/16
	21:58	21:14	20:09	19:01	17:03	16:38 11:26-12:11/45
13	05:44	06:27 19:54-20:20/26	07:16	08:04	07:57	08:40 15:40-15:57/17
	21:57	21:13	20:06	18:59	17:01	16:38 11:27-12:12/45
14	05:45	06:29 19:54-20:21/27	07:17	08:06	07:59	08:41 15:41-15:57/16
	21:56	21:11	20:04	18:57	17:00	16:38 11:27-12:12/45
15	05:46	06:30 19:54-20:20/26	07:19	08:07	08:01	08:42 15:41-15:58/17
	21:56	21:09	20:02	18:55	16:59	16:38 11:28-12:13/45
16	05:48	06:32 19:54-20:20/26	07:21	08:09	08:02	08:43 15:42-15:58/16
	21:55	21:07	20:00	18:52	16:57	16:38 11:28-12:13/45
17	05:49	06:34 19:53-20:19/26	07:22	08:11	08:04	08:44 15:42-15:59/17 11:11-11:13/2
	21:54	21:05	19:57	18:50	16:56	16:38 11:29-12:14/45
18	05:50	06:35 19:54-20:19/25	07:24	08:12	08:06	08:45 15:42-15:59/17 11:09-11:14/5
	21:52	21:03	19:55	18:48	16:55	16:39 11:28-12:14/46
19	05:51	06:37 19:54-20:18/24	07:25	08:14	08:07	08:45 15:43-16:00/17 11:09-11:15/6
	21:51	21:01	19:53	18:46	16:53	16:39 11:29-12:15/46
20	05:52	06:38 19:55-20:18/23	07:27	08:16	08:09 11:38-11:40/2	08:46 15:44-16:00/16 11:10-11:17/7
	21:50	20:59	19:50	18:44	16:52	16:39 11:30-12:16/46
21	05:54	06:40 19:55-20:16/21	07:28	08:18	08:11 11:33-11:48/15	08:47 15:44-16:00/16 11:10-11:17/7
	21:49	20:57	19:48	18:42	16:51	16:40 11:30-12:16/46
22	05:55	06:41 19:56-20:14/18	07:30	08:19	08:12 11:31-11:52/21	08:47 15:45-16:01/16 11:11-11:18/7
	21:48	20:55	19:46	18:40	16:50	16:40 11:31-12:17/46
23	05:56	06:43 19:57-20:12/15	07:32	08:21	08:14 11:29-11:53/24	08:48 15:45-16:01/16 11:11-11:18/7
	21:47	20:53	19:44	18:38	16:49	16:41 11:31-12:17/46
24	05:58	06:44 20:00-20:10/10	07:33	08:23	08:16 11:28-11:55/27	08:48 15:45-16:01/16 11:12-11:18/6
	21:45	20:50	19:41	18:36	16:48	16:41 11:31-12:17/46
25	05:59	06:46	07:35	07:24	08:17 11:27-11:57/30	08:48 15:46-16:03/17 11:13-11:18/5
	21:44	20:48	19:39	17:34	16:47	16:42 11:32-12:18/46
26	06:00	06:48	07:36 18:39-18:44/5	07:26	08:19 11:26-11:58/32	08:49 15:46-16:03/17 11:14-11:17/3
	21:43	20:46	19:37	17:32	16:46	16:43 11:33-12:18/45
27	06:02	06:49	07:38 18:36-18:47/11	07:28	08:20 11:26-12:00/34	08:49 15:47-16:03/16
	21:41	20:44	19:34	17:30	16:45	16:43 11:33-12:18/45
28	06:03	06:51	07:40 18:33-18:47/14	07:30	08:22 11:26-12:01/35	08:49 15:47-16:04/17
	21:40	20:42	19:32	17:28	16:44	16:44 11:33-12:19/46
29	06:05	06:52	07:41 18:32-18:48/16	07:31	08:23 15:40-15:46/6	08:49 15:47-16:04/17
	21:38	20:40	19:30	17:26	16:43 11:25-12:02/37	16:45 11:34-12:19/45
30	06:06	06:54	07:43 18:30-18:48/18	07:33	08:25 15:40-15:48/8	08:50 15:48-16:04/16
	21:37	20:38	19:28	17:25	16:43 11:25-12:03/38	16:46 11:34-12:19/45
31	06:08	06:55		07:35		08:50 15:48-16:05/17
	21:35	20:35		17:23		16:47 11:35-12:20/45
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	56	431	64	105	309	1919

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50 07:13-07:15/2	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48 07:11-07:15/4	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46 07:09-07:14/5	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44 07:07-07:13/6	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42 07:08-07:11/3	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	351	167	303	20	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:24-08:30/6	07:37	08:26 09:00-09:20/20
	22:04	21:34	20:33	19:25 08:09-08:11/2	17:21	16:42
2	05:34	06:11	06:59	07:46 08:22-08:32/10	07:38	08:27 09:01-09:21/20
	22:04	21:32	20:31	19:23	17:19	16:42
3	05:35	06:12	07:00	07:48 08:20-08:33/13	07:40	08:29 09:01-09:20/19
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:19-08:33/14	07:42	08:30 09:02-09:21/19
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:19-08:34/15	07:43	08:31 09:03-09:21/18
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:38	06:17	07:05	07:53 08:18-08:33/15	07:45	08:33 09:04-09:21/17
	22:02	21:25	20:22	19:14	17:12	16:40
7	05:38	06:18	07:07	07:54 08:19-08:32/13	07:47	08:34 09:06-09:21/15
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:32/11	07:49	08:35 09:07-09:21/14
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:29/7	07:50	08:36 09:08-09:21/13
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:50-08:59/9	07:52	08:37 09:09-09:21/12
	22:00	21:18	20:13	19:05 08:24-08:26/2	17:06	16:38
11	05:42	06:24	07:13	08:01 08:48-09:01/13	07:54	08:38 09:10-09:21/11
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:17-19:25/8	08:02 08:47-09:02/15	07:56	08:39 09:11-09:21/10
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:15-19:26/11	08:04 08:45-09:02/17	07:57	08:40 09:12-09:21/9
	21:57	21:13	20:06	18:59 18:24-18:25/1	17:01	16:38
14	05:45	06:29	07:18 19:13-19:27/14	08:06 08:44-09:03/19	07:59	08:41 09:13-09:21/8
	21:56	21:11	20:04	18:57 18:21-18:28/7	17:00	16:38
15	05:47	06:30	07:19 19:12-19:27/15	08:07 08:44-09:03/19	08:01	08:42 09:14-09:21/7
	21:55	21:09	20:02	18:55 18:20-18:27/7	16:59	16:38
16	05:48	06:32	07:21 19:11-19:27/16	08:09 08:44-09:03/19	08:02	08:43 09:15-09:21/6
	21:54	21:07	20:00	18:53 18:19-18:24/5	16:57	16:38
17	05:49	06:34	07:22 19:11-19:27/16	08:11 08:44-09:02/18	08:04	08:44 09:16-09:21/5
	21:53	21:05	19:57	18:50 18:19-18:22/3	16:56	16:39
18	05:50	06:35	07:24 19:10-19:25/15	08:12 08:44-09:02/18	08:06	08:45 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 19:11-19:25/14	08:14 08:45-09:01/16	08:07 09:05-09:09/4	08:45 09:17-09:18/1
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:53	06:38	07:27 19:12-19:23/11	08:16 08:46-09:00/14	08:09 09:04-09:12/8	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29 19:13-19:20/7	08:18 08:48-08:57/9	08:11 09:03-09:14/11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19	08:12 09:02-09:16/14	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43 07:11-07:15/4	07:32	08:21	08:14 09:01-09:16/15	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45 07:11-07:17/6	07:33	08:23	08:16 09:01-09:17/16	08:48 09:19-09:20/1
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 07:12-07:17/5	07:35	07:24	08:17 09:02-09:18/16	08:48 09:22-09:24/2
	21:44	20:48	19:39	17:34	16:47	16:42 09:20-09:21/1
26	06:01	06:48 07:14-07:18/4	07:36	07:26	08:19 09:01-09:18/17	08:49 09:20-09:25/5
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:15-07:17/2	07:38 08:05-08:12/7	07:28	08:20 09:02-09:19/17	08:49 09:20-09:26/6
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 08:04-08:12/8	07:30	08:22 09:02-09:20/18	08:49 09:20-09:26/6
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:06-08:12/6	07:31	08:23 09:01-09:19/18	08:49 09:20-09:27/7
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 08:08-08:12/4	07:33	08:25 09:01-09:20/19	08:49 09:20-09:28/8
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:50 09:20-09:29/9
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	21	152	317	173	273

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 08:57-09:09/12	07:32 17:35-17:51/16	07:23	06:20	05:36 06:16-06:35/19
	16:48	17:35	18:25	20:17	21:06	21:50 20:17-20:40/23
2	08:49	08:22 08:58-09:08/10	07:30 17:35-17:51/16	07:21	06:18	05:36 06:17-06:36/19
	16:49	17:36	18:26	20:19	21:08	21:52 20:17-20:42/25
3	08:49	08:21 08:59-09:06/7	07:28 17:36-17:50/14	07:19	06:16	05:35 06:16-06:35/19
	16:50	17:38	18:28	20:20	21:09	21:53 20:16-20:43/27
4	08:49	08:19	07:26 17:37-17:49/12	07:17	06:15	05:34 06:16-06:35/19
	16:51	17:40	18:30	20:22	21:11	21:54 20:15-20:43/28
5	08:49	08:18	07:24 17:39-17:46/7	07:14	06:13	05:34 06:17-06:35/18
	16:53	17:42	18:32	20:24	21:13	21:55 20:15-20:44/29
6	08:49	08:16	07:21	07:12	06:11	05:33 06:17-06:35/18
	16:54	17:44	18:33	20:25	21:14	21:55 20:14-20:45/31
7	08:48	08:14	07:19	07:10	06:09	05:32 06:18-06:35/17
	16:55	17:45	18:35	20:27	21:16	21:56 20:14-20:46/32
8	08:48	08:13	07:17	07:08	06:08	05:32 06:19-06:36/17
	16:56	17:47	18:37	20:29	21:17	21:57 20:13-20:46/33
9	08:47	08:11	07:15	07:05	06:06	05:31 06:18-06:35/17
	16:58	17:49	18:39	20:30	21:19	21:58 20:14-20:47/33
10	08:47	08:09	07:13	07:03	06:04	05:31 06:19-06:35/16
	16:59	17:51	18:40	20:32	21:21	21:59 20:14-20:48/34
11	08:46	08:08	07:10	07:01	06:03	05:31 06:20-06:35/15
	17:00	17:53	18:42	20:33	21:22	22:00 20:14-20:49/35
12	08:46	08:06	07:08	06:59	06:01	05:30 06:19-06:35/16
	17:02	17:54	18:44	20:35	21:24	22:00 20:13-20:48/35
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:35/15
	17:03	17:56	18:45	20:37	21:25	22:01 20:13-20:49/36
14	08:44	08:02 08:26-08:28/2	07:04	06:55	05:58	05:30 06:20-06:35/15
	17:05	17:58	18:47	20:38	21:27	22:01 20:14-20:49/35
15	08:44	08:00 08:24-08:27/3	07:02	06:52	05:56	05:30 06:21-06:35/14
	17:06	18:00	18:49	20:40	21:28	22:02 20:14-20:50/36
16	08:43	07:58 08:22-08:26/4	06:59	06:50	05:55	05:30 06:21-06:35/14
	17:08	18:02	18:50	20:42	21:30	22:03 20:14-20:50/36
17	08:42	07:56	06:57	06:48	05:53	05:29 06:22-06:35/13
	17:09	18:03	18:52	20:43	21:31	22:03 20:14-20:51/37
18	08:41	07:55	06:55 07:17-07:19/2	06:46	05:52	05:29 06:22-06:35/13
	17:11	18:05	18:54	20:45	21:32	22:03 20:14-20:51/37
19	08:40	07:53	06:53 07:15-07:20/5	06:44	05:51 06:21-06:29/8	05:30 06:22-06:35/13
	17:12	18:07	18:55	20:47	21:34	22:04 20:14-20:51/37
20	08:39	07:51	06:50 07:13-07:20/7	06:42	05:49 06:20-06:30/10	05:30 06:22-06:35/13
	17:14	18:09	18:57	20:48	21:35	22:04 20:14-20:51/37
21	08:38	07:49	06:48 07:10-07:19/9	06:40	05:48 06:19-06:32/13	05:30 06:22-06:35/13
	17:16	18:11	18:59	20:50	21:37	22:04 20:14-20:51/37
22	08:37	07:47 08:10-08:11/1	06:46 07:08-07:18/10	06:38	05:47 06:17-06:32/15	05:30 06:23-06:36/13
	17:17	18:12	19:00	20:52	21:38	22:04 20:15-20:52/37
23	08:36 09:03-09:04/1	07:45 17:41-17:46/5	06:44 07:10-07:17/7	06:36	05:46 06:17-06:32/15	05:30 06:23-06:36/13
	17:19	18:14 08:08-08:12/4	19:02 07:06-07:09/3	20:53	21:39	22:05 20:15-20:52/37
24	08:35 09:02-09:06/4	07:43 17:39-17:49/10	06:41 07:04-07:09/5	06:34	05:44 06:16-06:33/17	05:30 06:23-06:36/13
	17:21	18:16 08:06-08:12/6	19:04	20:55	21:41	22:05 20:15-20:52/37
25	08:34 09:00-09:06/6	07:40 17:37-17:51/14	06:39 07:01-07:07/6	06:32	05:43 06:16-06:34/18	05:31 06:24-06:37/13
	17:22	18:18 08:04-08:12/8	19:05	20:56	21:42	22:05 20:16-20:53/37
26	08:32 08:59-09:08/9	07:38 17:36-17:52/16	06:37 07:02-07:04/2	06:30	05:42 06:16-06:34/18	05:31 06:23-06:37/14
	17:24	18:19 08:02-08:12/10	19:07	20:58	21:43	22:05 20:16-20:53/37
27	08:31 08:57-09:08/11	07:36 17:35-17:51/16	06:34	06:28	05:41 06:15-06:34/19	05:32 06:24-06:38/14
	17:26	18:21 08:03-08:11/8	19:09	21:00	21:45 20:25-20:31/6	22:05 20:16-20:52/36
28	08:30 08:56-09:09/13	07:34 17:35-17:51/16	06:32	06:26	05:40 06:15-06:34/19	05:32 06:24-06:38/14
	17:28	18:23 08:04-08:08/4	19:10	21:01	21:46 20:22-20:34/12	22:05 20:17-20:53/36
29	08:28 08:55-09:09/14		07:30	06:24	05:39 06:16-06:35/19	05:33 06:24-06:39/15
	17:29		20:12	21:03	21:47 20:21-20:37/16	22:05 20:16-20:52/36
30	08:27 08:55-09:09/14		07:28	06:22	05:38 06:16-06:35/19	05:33 06:24-06:39/15
	17:31		20:14	21:05	21:48 20:19-20:38/19	22:04 20:17-20:53/36
31	08:25 08:56-09:09/13		07:25		05:37 06:16-06:35/19	
	17:33		20:15		21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	85	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 08:32-08:41/9	08:43
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 08:34-08:40/6	08:44
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 08:36-08:40/4	08:45
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 08:37-08:38/1	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09	08:46
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14	08:48
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April	May		June
1	08:50	08:24		07:32	17:12-17:37/25	07:23	06:20		05:36
	16:48	17:35		18:25		20:17	21:06		21:50
2	08:49	08:22		07:30	17:12-17:37/25	07:21	06:18		05:36
	16:49	17:36		18:26		20:19	21:08		21:52
3	08:49	08:21		07:28	17:13-17:36/23	07:19	06:16		05:35
	16:50	17:38		18:28		20:20	21:09		21:53
4	08:49	08:19		07:26	17:14-17:36/22	07:17	06:15		05:34
	16:51	17:40		18:30	07:49-07:51/2	20:22	21:11		21:54
5	08:49	08:18		07:24	17:14-17:34/20	07:14	06:13		05:33
	16:52	17:42		18:32	07:46-07:50/4	20:24	21:13		21:55
6	08:49	08:16		07:21	17:16-17:32/16	07:12	06:11	06:36-06:39/3	05:33
	16:54	17:44		18:33	07:44-07:49/5	20:25	21:14		21:55
7	08:48	08:14		07:19	17:18-17:30/12	07:10	06:09	06:34-06:40/6	05:32
	16:55	17:45		18:35	07:43-07:48/5	20:27	21:16		21:56
8	08:48	08:13		07:17	17:22-17:26/4	07:08	06:08	06:32-06:41/9	05:32
	16:56	17:47		18:37		20:28	21:17		21:57
9	08:47	08:11		07:15		07:05	06:06	06:31-06:42/11	05:31
	16:58	17:49		18:39		20:30	21:19		21:58
10	08:47	08:09		07:13		07:03	06:04	06:29-06:42/13	05:31
	16:59	17:51		18:40		20:32	21:20		21:59
11	08:46	08:08	08:32-08:33/1	07:10		07:01	06:03	06:29-06:42/13	05:31
	17:00	17:53		18:42		20:33	21:22		22:00
12	08:46	08:06	08:30-08:34/4	07:08		06:59	06:01	06:28-06:42/14	05:30
	17:02	17:54		18:44		20:35	21:24		22:00
13	08:45	08:04	08:28-08:34/6	07:06		06:57	05:59	06:28-06:42/14	05:30
	17:03	17:56		18:45		20:37	21:25		22:01
14	08:44	08:02	08:26-08:34/8	07:04		06:55	05:58	06:28-06:41/13	05:30
	17:05	17:58		18:47		20:38	21:27		22:01
15	08:44	08:00	08:24-08:34/10	07:02		06:52	05:56	06:29-06:41/12	05:30
	17:06	18:00		18:49		20:40	21:28		22:02
16	08:43	07:58	08:23-08:33/10	06:59		06:50	05:55	06:30-06:40/10	05:30
	17:08	18:02		18:50		20:42	21:30		22:02
17	08:42	07:56	08:25-08:31/6	06:57		06:48	05:53	06:30-06:39/9	05:29
	17:09	18:03		18:52		20:43	21:31		22:03
18	08:41	07:54		06:55		06:46	05:52	06:32-06:37/5	05:29
	17:11	18:05		18:54		20:45	21:32		22:03
19	08:40	07:53		06:53		06:44	05:51		05:29
	17:12	18:07		18:55		20:47	21:34		22:04
20	08:39	07:51	17:22-17:28/6	06:50		06:42	05:49		05:30
	17:14	18:09		18:57		20:48	21:35		22:04
21	08:38	07:49	17:18-17:31/13	06:48		06:40	05:48		05:30
	17:16	18:11		18:59		20:50	21:37		22:04
22	08:37	07:47	17:17-17:33/16	06:46		06:38	05:47		05:30
	17:17	18:12		19:00		20:52	21:38		22:04
23	08:36	07:45	17:15-17:35/20	06:44	07:06-07:07/1	06:36	05:46		05:30
	17:19	18:14	08:08-08:09/1	19:02		20:53	21:39		22:05
24	08:35	07:43	17:14-17:36/22	06:41	07:04-07:07/3	06:34	05:44		05:30
	17:21	18:16		19:04		20:55	21:41		22:05
25	08:33	07:40	17:14-17:37/23	06:39	07:01-07:06/5	06:32	05:43		05:31
	17:22	18:18		19:05	18:38-18:40/2	20:56	21:42		22:05
26	08:32	07:38	17:13-17:38/25	06:37	06:59-07:04/5	06:30	05:42		05:31
	17:24	18:19		19:07	18:40-18:42/2	20:58	21:43		22:05
27	08:31	07:36	17:12-17:37/25	06:34	06:57-06:58/1	06:28	05:41		05:32
	17:26	18:21		19:09		21:00	21:45		22:05
28	08:30	07:34	17:12-17:37/25	06:32	06:55-06:57/2	06:26	05:40		05:32
	17:28	18:23		19:10		21:01	21:46		22:05
29	08:28			07:30		06:24	05:39		05:33
	17:29			20:12		21:03	21:47		22:05
30	08:27			07:28		06:22	05:38		05:33
	17:31			20:14		21:05	21:48		22:04
31	08:25			07:25			05:37		
	17:33			20:15			21:49		
Potential sun hours	262	279		367		415	482		495
Sum of minutes with flicker	0	221		184		0	132		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34		06:09	06:38-06:52/14	06:57		07:44		07:36	08:26
	22:04		21:34		20:33		19:25		17:21	16:42
2	05:34		06:11	06:39-06:53/14	06:59		07:46		07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35		06:12	06:40-06:52/12	07:00		07:48		07:40	08:29
	22:03		21:30		20:29		19:21		17:17	16:41
4	05:36		06:13	06:41-06:51/10	07:02		07:49		07:42	08:30
	22:03		21:29		20:27		19:19		17:16	16:40
5	05:37		06:15	06:43-06:51/8	07:03		07:51		07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37		06:17	06:44-06:49/5	07:05		07:52	17:55-18:05/10	07:45	08:33
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38		06:18	06:46-06:47/1	07:06		07:54	17:53-18:07/14	07:47	08:34
	22:02		21:23		20:20		19:12	08:19-08:25/6	17:11	16:39
8	05:39		06:20		07:08		07:56	17:51-18:09/18	07:49	08:35
	22:01		21:22		20:18		19:10	08:21-08:26/5	17:09	16:39
9	05:40		06:21		07:10		07:57	17:48-18:09/21	07:50	08:36
	22:00		21:20		20:15		19:08	08:22-08:25/3	17:07	16:38
10	05:41		06:23		07:11		07:59	17:47-18:10/23	07:52	08:37
	22:00		21:18		20:13		19:05	08:24-08:25/1	17:06	16:38
11	05:42		06:24		07:13		08:01	17:47-18:11/24	07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43		06:26		07:14		08:02	17:45-18:10/25	07:56	08:39
	21:58		21:14		20:09		19:01		17:03	16:38
13	05:44		06:27		07:16		08:04	17:45-18:10/25	07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45		06:29		07:17		08:06	17:45-18:10/25	07:59	08:41
	21:56		21:11		20:04		18:57		17:00	16:38
15	05:46		06:30		07:19	07:44-07:45/1	08:07	17:45-18:10/25	08:01	08:42
	21:55		21:09		20:02		18:55		16:59	16:38
16	05:48		06:32		07:21	07:45-07:47/2	08:09	17:44-18:09/25	08:02	08:43
	21:54		21:07		19:59		18:52		16:57	16:38
17	05:49		06:34		07:22	07:47-07:52/5	08:11	17:45-18:08/23	08:04	08:44
	21:53		21:05		19:57	19:28-19:31/3	18:50		16:56	16:38
18	05:50		06:35		07:24	07:49-07:54/5	08:12	17:46-18:07/21	08:06	08:45
	21:52		21:03		19:55	19:26-19:28/2	18:48	08:38-08:39/1	16:55	16:39
19	05:51		06:37		07:25	07:50-07:54/4	08:14	17:47-18:06/19	08:07	08:45
	21:51		21:01		19:53	19:25-19:26/1	18:46		16:53	16:39
20	05:52		06:38		07:27	07:52-07:54/2	08:16	17:47-18:03/16	08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28		08:17	17:50-18:01/11	08:11	08:46
	21:49		20:57		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30		08:19	17:54-17:57/3	08:12	08:47
	21:48		20:55		19:46		18:40		16:50	16:40
23	05:56		06:43		07:32		08:21		08:14	08:47
	21:46		20:52		19:44		18:38		16:49	16:41
24	05:58		06:44		07:33		08:23	08:57-09:00/3	08:15	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59	06:45-06:46/1	06:46		07:35		07:24	07:55-08:02/7	08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00	06:42-06:49/7	06:48		07:36		07:26	07:54-08:04/10	08:19	08:49
	21:42		20:46		19:37		17:32		16:46	16:43
27	06:02	06:40-06:50/10	06:49		07:38		07:28	07:54-08:03/9	08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03	06:40-06:51/11	06:51		07:40		07:29	07:56-08:04/8	08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:05	06:39-06:52/13	06:52		07:41		07:31	07:58-08:04/6	08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06	06:38-06:52/14	06:54		07:43		07:33	08:00-08:03/3	08:25	08:49
	21:37		20:38		19:28		17:25		16:43	16:46
31	06:08	06:39-06:53/14	06:55				07:35			08:49
	21:35		20:35				17:23			16:47
Potential sun hours	498		451		380		333		269	248
Sum of minutes with flicker	70		64		25		390		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:12-15:51/39	08:24 17:01-17:05/4	07:32	07:23	06:20	05:36
	16:48	17:35 16:20-16:55/35	18:25	20:17	21:06	21:51
2	08:50 15:13-15:52/39	08:23 17:00-17:07/7	07:30	07:21 19:50-19:53/3	06:18	05:36
	16:49	17:36 16:20-16:55/35	18:26	20:19	21:08	21:52
3	08:49 15:14-15:53/39	08:21 17:00-17:09/9	07:28	07:19 19:48-19:55/7	06:16	05:35
	16:50	17:38 16:19-16:56/37	18:28	20:20	21:10	21:53
4	08:49 15:14-15:52/38	08:19 17:01-17:11/10	07:26	07:17 19:47-19:57/10	06:15	05:34
	16:51	17:40 16:19-16:57/38	18:30	20:22	21:11	21:54
5	08:49 15:14-15:53/39	08:18 17:01-17:13/12	07:24	07:14 19:46-19:58/12	06:13	05:33
	16:53	17:42 16:19-16:57/38	18:32	20:24	21:13	21:55
6	08:49 15:14-15:53/39	08:16 17:01-17:15/14	07:21	07:12 19:44-19:59/15	06:11	05:33
	16:54	17:44 16:19-16:57/38	18:33	20:25	21:14	21:56
7	08:48 15:15-15:54/39	08:15 17:02-17:15/13	07:19	07:10 19:44-20:01/17	06:09	05:32
	16:55	17:45 16:19-16:57/38	18:35	20:27	21:16	21:57
8	08:48 15:15-15:54/39	08:13 17:04-17:15/11	07:17	07:08 19:44-20:03/19	06:08	05:32
	16:56	17:47 16:20-16:58/38	18:37	20:29	21:17	21:57
9	08:48 15:16-15:55/39	08:11 17:05-17:13/8	07:15	07:05 19:44-20:03/19	06:06	05:31
	16:58	17:49 16:20-16:58/38	18:39	20:30	21:19	21:58
10	08:47 15:16-15:55/39	08:09 16:20-16:57/37	07:13	07:03 19:44-20:03/19	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47 15:17-15:55/38	08:08 16:20-16:57/37	07:11 18:14-18:17/3	07:01 19:44-20:01/17	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46 15:18-15:56/38	08:06 16:21-16:56/35	07:08 18:13-18:19/6	06:59 19:45-19:59/14	06:01	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 15:18-15:56/38	08:04 16:21-16:56/35	07:06 18:11-18:20/9	06:57 19:47-19:58/11	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45 15:19-15:56/37	08:02 16:22-16:55/33	07:04 18:11-18:22/11	06:55 19:50-19:54/4	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 15:20-15:56/36	08:00 16:23-16:54/31	07:02 18:11-18:24/13	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 15:20-15:56/36	07:58 16:24-16:53/29	06:59 18:11-18:26/15	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 15:21-15:56/35	07:57 16:26-16:52/26	06:57 18:11-18:25/14	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 15:22-15:56/34	07:55 16:28-16:50/22	06:55 18:13-18:24/11	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 15:23-15:56/33	07:53 16:30-16:48/18	06:53 18:15-18:22/7	06:44	05:51	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 15:24-15:56/32	07:51 16:33-16:45/12	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 15:24-15:55/31	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:30-16:38/8	07:47	06:46	06:38	05:47	05:30
	17:17 15:26-15:55/29	18:12	19:00	20:52	21:38	22:05
23	08:36 16:28-16:42/14	07:45	06:44	06:36	05:46	05:30
	17:19 15:27-15:54/27	18:14	19:02	20:53	21:40	22:05
24	08:35 16:26-16:45/19	07:43	06:41	06:34	05:44	05:30
	17:21 15:29-15:54/25	18:16	19:04	20:55	21:41	22:05
25	08:34 16:24-16:46/22	07:41	06:39	06:32	05:43	05:31
	17:22 15:30-15:52/22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:24-16:48/24	07:39	06:37	06:30	05:42	05:31
	17:24 15:33-15:51/18	18:19	19:07	20:58	21:43	22:05
27	08:31 16:22-16:49/27	07:36	06:35	06:28	05:41	05:32
	17:26 15:35-15:48/13	18:21	19:09	21:00	21:45	22:05
28	08:30 16:22-16:51/29	07:34	06:32	06:26	05:40	05:32
	17:28 15:40-15:45/5	18:23	19:10	21:01	21:46	22:05
29	08:28 16:21-16:52/31		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:21-16:53/32		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 17:01-17:03/2		07:26		05:37	
	17:33 16:20-16:54/34		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1158	738	89	167	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:44-20:01/17	07:44 18:52-18:58/6	07:37 16:38-16:40/2	08:26 14:59-15:37/38
	22:04	21:34	20:33	19:25	17:21 15:49-16:27/38	16:42
2	05:34	06:11	06:59 19:42-20:01/19	07:46 18:52-18:56/4	07:38 16:35-16:43/8	08:27 15:00-15:38/38
	22:04	21:32	20:31	19:23	17:19 15:49-16:27/38	16:41
3	05:35	06:12	07:00 19:42-20:01/19	07:48 18:53-18:54/1	07:40 16:32-16:44/12	08:29 14:59-15:38/39
	22:04	21:30	20:29	19:21	17:17 15:49-16:27/38	16:41
4	05:36	06:14	07:02 19:41-20:00/19	07:49	07:42 16:31-16:45/14	08:30 15:00-15:39/39
	22:03	21:29	20:27	19:19	17:16 15:48-16:27/39	16:40
5	05:37	06:15	07:03 19:41-19:58/17	07:51	07:44 16:31-16:44/13	08:31 15:00-15:39/39
	22:03	21:27	20:24	19:16	17:14 15:49-16:27/38	16:40
6	05:37	06:17	07:05 19:40-19:55/15	07:53	07:45 16:30-16:42/12	08:33 15:00-15:39/39
	22:02	21:25	20:22	19:14	17:12 15:49-16:27/38	16:39
7	05:38	06:18	07:07 19:41-19:54/13	07:54	07:47 16:30-16:41/11	08:34 15:01-15:40/39
	22:02	21:24	20:20	19:12	17:11 15:49-16:27/38	16:39
8	05:39	06:20	07:08 19:41-19:51/10	07:56	07:49 16:31-16:39/8	08:35 15:02-15:40/38
	22:01	21:22	20:18	19:10	17:09 15:50-16:26/36	16:39
9	05:40	06:21	07:10 19:42-19:49/7	07:57	07:51 16:31-16:38/7	08:36 15:02-15:41/39
	22:00	21:20	20:15	19:08	17:07 15:50-16:26/36	16:39
10	05:41	06:23	07:11 19:43-19:46/3	07:59	07:52 16:32-16:36/4	08:37 15:02-15:41/39
	22:00	21:18	20:13	19:05	17:06 15:51-16:26/35	16:38
11	05:42	06:24	07:13	08:01	07:54 16:33-16:35/2	08:38 15:03-15:41/38
	21:59	21:16	20:11	19:03	17:04 15:52-16:26/34	16:38
12	05:43	06:26	07:14	08:02	07:56 15:52-16:24/32	08:39 15:03-15:42/39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04	07:57 15:53-16:24/31	08:40 15:03-15:42/39
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:18	08:06	07:59 15:54-16:23/29	08:41 15:04-15:42/38
	21:57	21:11	20:04	18:57	17:00 15:12-15:17/5	16:38
15	05:46	06:30	07:19	08:07	08:01 15:55-16:22/27	08:42 15:05-15:43/38
	21:56	21:09	20:02	18:55	16:59 15:08-15:21/13	16:38
16	05:48	06:32	07:21	08:09	08:03 15:57-16:21/24	08:43 15:05-15:44/39
	21:55	21:07	20:00	18:53	16:57 15:06-15:24/18	16:38
17	05:49	06:34	07:22	08:11	08:04 15:58-16:20/22	08:44 15:06-15:44/38
	21:54	21:05	19:57	18:50	16:56 15:04-15:26/22	16:38
18	05:50	06:35	07:24	08:12	08:06 16:00-16:19/19	08:45 15:06-15:44/38
	21:53	21:03	19:55	18:48	16:55 15:03-15:28/25	16:39
19	05:51	06:37	07:25	08:14	08:08 16:02-16:16/14	08:45 15:07-15:45/38
	21:51	21:01	19:53	18:46	16:53 15:01-15:28/27	16:39
20	05:52	06:38	07:27	08:16	08:09 16:05-16:14/9	08:46 15:07-15:46/39
	21:50	20:59	19:50	18:44	16:52 15:01-15:30/29	16:39
21	05:54	06:40	07:29	08:18	08:11 15:00-15:31/31	08:47 15:07-15:45/38
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 17:03-17:16/13	08:12 15:00-15:32/32	08:47 15:08-15:46/38
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 17:00-17:19/19	08:14 14:59-15:32/33	08:48 15:08-15:47/39
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 18:59-19:04/5	08:23 16:57-17:21/24	08:16 14:59-15:33/34	08:48 15:10-15:48/38
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:56-19:06/10	07:24 15:56-16:22/26	08:17 14:59-15:34/35	08:48 15:10-15:48/38
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:54-19:07/13	07:26 15:54-16:24/30	08:19 14:58-15:34/36	08:49 15:10-15:48/38
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:53-19:08/15	07:28 15:52-16:24/32	08:20 14:59-15:35/36	08:49 15:10-15:48/38
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:52-19:05/13	07:30 15:51-16:25/34	08:22 14:59-15:36/37	08:49 15:10-15:49/39
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:50-19:56/6	07:41 18:52-19:03/11	07:31 15:51-16:25/34	08:23 14:59-15:36/37	08:49 15:11-15:49/38
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:48-19:59/11	07:43 18:51-19:00/9	07:33 15:50-16:26/36	08:25 14:59-15:37/38	08:50 15:11-15:50/39
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:45-19:59/14		07:35 15:50-16:27/37		08:50 15:12-15:50/38
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	215	296	1196	1192

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:36-15:57/21	08:24	07:32 17:51-17:59/8	07:23	06:20 20:36-20:38/2	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 15:37-15:57/20	08:23	07:30 17:52-18:01/9	07:21	06:18 20:35-20:40/5	05:36
	16:49	17:36	18:27	20:19	21:08	21:52
3	08:49 15:38-15:58/20	08:21	07:28 17:53-18:01/8	07:19	06:16 20:34-20:41/7	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49 15:38-15:57/19	08:19	07:26	07:17	06:15 20:34-20:43/9	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 15:40-15:58/18	08:18	07:24	07:14	06:13 20:34-20:44/10	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 16:18-16:20/2	08:16	07:21	07:12	06:11 20:34-20:45/11	05:33
	16:54 15:40-15:57/17	17:44	18:33	20:25	21:14	21:56
7	08:48 16:18-16:22/4	08:15	07:19	07:10	06:09 20:34-20:47/13	05:32
	16:55 15:41-15:58/17	17:45	18:35	20:27	21:16	21:57
8	08:48 16:17-16:23/6	08:13	07:17	07:08	06:08 20:34-20:48/14	05:32
	16:56 15:42-15:57/15	17:47	18:37	20:29	21:18	21:57
9	08:48 16:17-16:25/8	08:11	07:15	07:06	06:06 20:35-20:49/14	05:31
	16:58 15:44-15:57/13	17:49	18:39	20:30	21:19	21:58
10	08:47 16:16-16:26/10	08:09	07:13	07:03	06:04 20:36-20:48/12	05:31
	16:59 15:45-15:56/11	17:51	18:40	20:32	21:21	21:59
11	08:47 16:16-16:27/11	08:08	07:11	07:01	06:03 20:38-20:47/9	05:31
	17:00 15:47-15:55/8	17:53	18:42	20:34	21:22	22:00
12	08:46 16:16-16:29/13	08:06	07:08 18:18-18:19/1	06:59	06:01 20:53-20:54/1	05:30
	17:02 15:51-15:53/2	17:55	18:44	20:35	21:24 20:39-20:45/6	22:00
13	08:45 16:16-16:31/15	08:04	07:06 18:16-18:20/4	06:57	05:59 20:54-20:56/2	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45 16:16-16:32/16	08:02	07:04 18:15-18:22/7	06:55	05:58 20:55-20:57/2	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 16:16-16:34/18	08:00	07:02 18:14-18:24/10	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:16-16:35/19	07:58	06:59 18:14-18:26/12	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:16-16:37/21	07:57	06:57 18:14-18:27/13	06:48	05:54	05:29
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:16-16:39/23	07:55	06:55 18:14-18:28/14	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:16-16:39/23	07:53	06:53 18:16-18:27/11	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 16:17-16:40/23	07:51	06:50 18:18-18:25/7	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:16-16:40/24	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:17-16:40/23	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 16:17-16:41/24	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:18-16:41/23	07:43	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:50-16:51/1	07:41	06:39	06:32	05:43	05:31
	17:22 16:18-16:40/22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:51-16:54/3	07:39 17:52-17:54/2	06:37	06:30	05:42	05:31
	17:24 16:19-16:40/21	18:20	19:07	20:58	21:43	22:05
27	08:31 16:50-16:55/5	07:36 17:52-17:56/4	06:35	06:28	05:41	05:32
	17:26 16:20-16:39/19	18:21	19:09	21:00	21:45	22:05
28	08:30 16:51-16:57/6	07:34 17:51-17:57/6	06:32	06:26	05:40	05:32
	17:28 16:21-16:39/18	18:23	19:10	21:01	21:46	22:05
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33
	17:29 16:22-16:38/16		20:12	21:03	21:47	22:05
30	08:27 16:53-17:01/8		07:28	06:22	05:38	05:33
	17:31 16:25-16:37/12		20:14	21:05	21:48	22:05
31	08:26 16:55-17:01/6		07:26		05:37	
	17:33 16:27-16:35/8		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	639	12	104	0	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 20:49-20:56/7	06:57	07:44 18:56-18:58/2	07:37	08:26 15:58-16:09/11
	22:04	21:34	20:33	19:25	17:21	16:42 15:29-15:37/8
2	05:34	06:11 20:48-20:58/10	06:59	07:46	07:38	08:27 15:59-16:09/10
	22:04	21:32	20:31	19:23	17:19	16:41 15:29-15:39/10
3	05:35	06:12 20:46-20:59/13	07:00	07:48	07:40	08:29 16:00-16:08/8
	22:04	21:30	20:29	19:21	17:17	16:41 15:27-15:40/13
4	05:36	06:14 20:45-20:59/14	07:02	07:49	07:42	08:30 16:02-16:08/6
	22:03	21:29	20:27	19:19	17:16	16:40 15:27-15:42/15
5	05:37	06:15 20:45-20:58/13	07:03	07:51	07:44	08:31 16:03-16:07/4
	22:03	21:27	20:24	19:16	17:14	16:40 15:27-15:43/16
6	05:37	06:17 20:44-20:56/12	07:05	07:53	07:45	08:33 16:04-16:06/2
	22:02	21:25	20:22	19:14	17:12	16:39 15:26-15:43/17
7	05:38	06:18 20:44-20:55/11	07:07	07:54	07:47	08:34 15:27-15:45/18
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20 20:43-20:53/10	07:08	07:56	07:49	08:35 15:27-15:45/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 20:43-20:51/8	07:10	07:58	07:51	08:36 15:26-15:46/20
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23 20:44-20:50/6	07:11	07:59 18:29-18:34/5	07:52	08:37 15:26-15:46/20
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24 20:44-20:48/4	07:13	08:01 18:26-18:36/10	07:54 16:26-16:33/7	08:38 15:26-15:47/21
	21:59	21:16	20:11	19:03	17:04 15:58-16:07/9	16:38
12	05:43	06:26 20:45-20:46/1	07:14	08:02 18:24-18:33/9	07:56 16:24-16:32/8	08:39 15:27-15:48/21
	21:58	21:14	20:09	19:01	17:03 15:55-16:08/13	16:38
13	05:44	06:27	07:16	08:04 18:24-18:31/7	07:57 16:24-16:31/7	08:40 15:27-15:48/21
	21:57	21:13	20:06	18:59	17:01 15:54-16:10/16	16:38
14	05:45	06:29	07:18	08:06 18:24-18:29/5	07:59 16:23-16:29/6	08:41 15:27-15:49/22
	21:57	21:11	20:04	18:57	17:00 15:53-16:11/18	16:38
15	05:46	06:30	07:19	08:07 18:24-18:27/3	08:01 16:23-16:28/5	08:42 15:28-15:50/22
	21:56	21:09	20:02	18:55	16:59 15:53-16:12/19	16:38
16	05:48	06:32	07:21	08:09	08:03 16:24-16:27/3	08:43 15:28-15:50/22
	21:55	21:07	20:00	18:53	16:57 15:52-16:13/21	16:38
17	05:49	06:34	07:22	08:11	08:04 16:24-16:25/1	08:44 15:29-15:51/22
	21:54	21:05	19:57	18:50	16:56 15:52-16:14/22	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45 15:29-15:51/22
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:08 15:51-16:15/24	08:45 15:29-15:52/23
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09 15:52-16:15/23	08:46 15:30-15:53/23
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18	08:11 15:52-16:16/24	08:47 15:30-15:53/23
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19	08:12 15:53-16:16/23	08:47 15:31-15:53/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 19:02-19:08/6	08:21	08:14 15:52-16:16/24	08:48 15:31-15:54/23
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:00-19:10/10	08:23	08:16 15:53-16:16/23	08:48 15:32-15:55/23
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:57-19:11/14	07:24	08:17 15:54-16:15/21	08:48 15:32-15:55/23
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:57-19:10/13	07:26	08:19 15:54-16:14/20	08:49 15:33-15:55/22
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:56-19:08/12	07:28	08:20 15:55-16:13/18	08:49 15:33-15:55/22
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:55-19:05/10	07:30	08:22 15:56-16:12/16	08:49 15:34-15:55/21
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 21:07-21:08/1	06:52	07:41 18:55-19:03/8	07:31	08:23 15:56-16:11/15	08:49 15:34-15:56/22
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06 21:05-21:07/2	06:54	07:43 18:55-19:00/5	07:33	08:25 15:57-16:10/13	08:50 15:35-15:56/21
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 21:05-21:06/1	06:56		07:35		08:50 15:35-15:56/21
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	4	109	78	41	422	658

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 15:46-16:59/73	07:32	07:23	06:20 18:40-19:55/75	05:37 18:43-19:58/75
	16:48	17:35	18:25	20:17	21:06 07:06-07:47/41	21:51 20:58-21:19/21
2	08:50	08:23 15:46-16:58/72	07:30	07:21	06:18 18:40-19:56/76	05:36 18:45-19:58/73
	16:49	17:37	18:27	20:19	21:08 07:06-07:46/40	21:52 20:59-21:20/21
3	08:49	08:21 15:46-16:58/72	07:28	07:19	06:17 18:40-19:57/77	05:35 18:45-19:58/73
	16:50	17:38	18:28	20:20	21:10 07:07-07:47/40	21:53 20:59-21:21/22
4	08:49	08:19 15:47-16:58/71	07:26	07:17	06:15 18:39-19:57/78 20:42-20:43/1	05:34 18:45-19:57/72
	16:51	17:40	18:30	20:22	21:11 07:07-07:46/39	21:54 20:58-21:21/23
5	08:49	08:18 15:47-16:58/71	07:24	07:14	06:13 18:38-19:57/79 20:41-20:44/3	05:34 18:46-19:58/72
	16:53	17:42	18:32	20:24	21:13 07:07-07:45/38	21:55 20:59-21:22/23
6	08:49	08:16 15:47-16:57/70	07:22	07:12	06:11 18:39-19:58/79 20:40-20:46/6	05:33 18:46-19:57/71
	16:54	17:44	18:33	20:25	21:14 07:07-07:45/38	21:56 20:59-21:21/22
7	08:48	08:15 16:36-16:56/20	07:19	07:10	06:09 18:38-19:58/80 20:39-20:47/8	05:32 18:47-19:58/71
	16:55	17:46 15:47-16:35/48	18:35	20:27	21:16 07:07-07:44/37	21:56 20:59-21:22/23
8	08:48	08:13 16:38-16:56/18	07:17	07:08 20:01-20:03/2	06:08 18:38-19:57/79 20:39-20:48/9	05:32 18:48-19:58/70
	16:56	17:47 15:48-16:35/47	18:37	20:29	21:17 07:08-07:43/35	21:57 21:00-21:23/23
9	08:48	08:11 16:40-16:54/14	07:15	07:06 20:01-20:05/4	06:06 18:38-19:58/80 20:39-20:50/11	05:31 18:47-19:58/71
	16:58	17:49 15:49-16:35/46	18:39	20:30	21:19 07:09-07:43/34	21:58 20:59-21:22/23
10	08:47 15:58-16:08/10	08:09 16:42-16:51/9	07:13	07:03 20:02-20:06/4	06:04 18:37-19:58/81 20:39-20:51/12	05:31 18:48-19:58/70
	16:59	17:51 15:49-16:34/45	18:40	20:32	21:21 07:09-07:42/33	21:59 21:00-21:23/23
11	08:46 15:56-16:11/15	08:08 15:50-16:34/44	07:11	07:01 20:03-20:08/5	06:03 18:38-19:58/80 20:39-20:53/14	05:31 18:49-19:58/69
	17:00	17:53	18:42	20:34	21:22 07:10-07:41/31	22:00 21:00-21:23/23
12	08:46 15:55-16:14/19	08:06 15:50-16:33/43	07:08	06:59 20:04-20:07/3	06:01 18:37-19:58/81 20:39-20:54/15	05:30 18:48-19:58/70
	17:02	17:55	18:44	20:35	21:24 07:10-07:39/29	22:00 21:00-21:22/22
13	08:45 15:54-16:15/21	08:04 15:51-16:32/41	07:06	06:57 19:17-19:24/7	06:00 18:38-19:58/80 20:40-20:54/14	05:30 18:49-19:58/69
	17:03	17:56	18:45	20:37	21:25 07:12-07:39/27	22:01 21:00-21:23/23
14	08:45 15:53-16:17/24	08:02 15:52-16:31/39	07:04	06:55 19:09-19:32/23	05:58 18:37-19:58/81 20:41-20:52/11	05:30 18:50-19:58/68
	17:05	17:58	18:47	20:39	21:27 07:12-07:37/25	22:02 21:01-21:23/22
15	08:44 15:52-16:19/27	08:00 15:53-16:30/37	07:02	06:53 19:05-19:36/31	05:57 18:38-19:58/80 20:42-20:52/10	05:30 18:50-19:58/68
	17:06	18:00	18:49	20:40	21:28 07:14-07:36/22	22:02 21:01-21:23/22
16	08:43 15:51-16:20/29	07:58 15:55-16:29/34	06:59	06:50 19:02-19:38/36	05:55 18:38-19:59/81 20:44-20:51/7	05:30 18:50-19:58/68
	17:08	18:02	18:51	20:42 07:26-07:35/9	21:30 07:16-07:35/19	22:03 21:01-21:24/23
17	08:42 15:50-16:22/32	07:57 15:57-16:27/30	06:57	06:48 18:59-19:41/42	05:54 18:38-19:58/80	05:30 18:51-19:59/68
	17:09	18:04	18:52	20:43 07:22-07:39/17	21:31 07:17-07:32/15	22:03 21:02-21:24/22
18	08:41 15:50-16:23/33	07:55 15:59-16:26/27	06:55	06:46 18:57-19:43/46	05:52 18:38-19:58/80	05:30 18:51-19:59/68
	17:11	18:05	18:54	20:45 07:19-07:41/22	21:33 07:20-07:29/9	22:03 21:02-21:24/22
19	08:40 15:49-16:25/36	07:53 16:02-16:23/21	06:53	06:44 18:55-19:44/49	05:51 18:39-19:59/80	05:30 18:51-19:59/68
	17:12	18:07	18:56	20:47 07:17-07:42/25	21:34	22:04 21:02-21:24/22
20	08:39 16:39-16:43/4	07:51 16:05-16:20/15	06:50	06:42 18:53-19:46/53	05:49 18:39-19:59/80	05:30 18:51-19:59/68
	17:14 15:49-16:26/37	18:09	18:57	20:48 07:15-07:44/29	21:35	22:04 21:02-21:24/22
21	08:38 16:36-16:44/8	07:49 17:42-17:44/2	06:48	06:40 18:51-19:47/56	05:48 18:40-19:59/79	05:30 18:51-19:59/68
	17:16 15:48-16:26/38	18:11	18:59	20:50 07:13-07:45/32	21:37	22:04 21:02-21:24/22
22	08:37 16:35-16:46/11	07:47 17:42-17:46/4	06:46	06:38 18:49-19:49/60	05:47 18:39-19:58/79	05:30 18:52-20:00/68
	17:17 15:48-16:28/40	18:12	19:01	20:52 07:12-07:45/33	21:38 21:04-21:07/3	22:05 21:03-21:25/22
23	08:36 16:35-16:48/13	07:45 17:42-17:48/6	06:44	06:36 18:48-19:50/62	05:46 18:40-19:58/78	05:30 18:52-20:00/68
	17:19 15:48-16:29/41	18:14	19:02	20:53 07:11-07:46/35	21:40 21:02-21:09/7	22:05 21:03-21:25/22
24	08:35 16:34-16:50/16	07:43 17:43-17:50/7	06:41	06:34 18:47-19:51/64	05:44 18:40-19:58/78	05:31 18:52-20:00/68
	17:21 15:48-16:30/42	18:16	19:04	20:55 07:10-07:46/36	21:41 21:01-21:10/9	22:05 21:03-21:25/22
25	08:34 16:33-16:51/18	07:41 17:45-17:50/5	06:39	06:32 18:45-19:51/66	05:43 18:40-19:58/78	05:31 18:53-20:01/68
	17:22 15:47-16:30/43	18:18	19:06	20:57 07:09-07:47/38	21:42 21:01-21:11/10	22:05 21:04-21:26/22
26	08:32 16:33-16:54/21	07:39	06:37	06:30 18:44-19:52/68	05:42 18:41-19:58/77	05:31 18:52-20:00/68
	17:24 15:47-16:32/45	18:20	19:07	20:58 07:08-07:47/39	21:43 21:00-21:12/12	22:05 21:04-21:26/22
27	08:31 15:46-16:55/69	07:36	06:35	06:28 18:43-19:53/70	05:41 18:41-19:58/77	05:32 18:53-20:01/68
	17:26	18:21	19:09	21:00 07:07-07:47/40	21:45 20:59-21:13/14	22:05 21:04-21:26/22
28	08:30 15:46-16:57/71	07:34	06:32	06:26 18:43-19:54/71	05:40 18:42-19:58/76	05:32 18:53-20:01/68
	17:28	18:23	19:10	21:01 07:08-07:48/40	21:46 20:59-21:14/15	22:05 21:04-21:26/22
29	08:28 15:46-16:57/71		07:30	06:24 18:42-19:55/73	05:39 18:43-19:58/75	05:33 18:53-20:02/69
	17:29		20:12	21:03 07:07-07:48/41	21:47 20:59-21:16/17	22:05 21:05-21:27/22
30	08:27 15:46-16:58/72		07:28	06:22 18:41-19:55/74	05:38 18:43-19:58/75	05:33 18:53-20:02/69
	17:31		20:14	21:05 07:07-07:47/40	21:48 20:59-21:17/18	22:04 21:04-21:27/23
31	08:26 15:46-16:58/72		07:26		05:37 18:43-19:58/75	
	17:33		20:15		21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	978	1031	0	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69	06:09 18:48-20:08/80 20:50-21:04/14	06:57 20:01-20:07/6	07:45	07:37 16:11-16:22/11	08:26 15:38-15:53/15
	22:04 21:05-21:27/22	21:34 07:20-07:50/30	20:33	19:25	17:21 15:19-16:04/45	16:42
2	05:35 18:52-20:02/70	06:11 18:48-20:09/81 20:50-21:03/13	06:59 20:00-20:04/4	07:46	07:38 16:09-16:24/15	08:27 15:41-15:52/11
	22:04 21:04-21:27/23	21:32 07:20-07:52/32	20:31	19:23	17:19 15:18-16:05/47	16:42
3	05:35 18:53-20:03/70	06:12 18:48-20:08/80 20:49-21:01/12	07:00 19:59-20:03/4	07:48	07:40 16:08-16:26/18	08:29
	22:04 21:05-21:27/22	21:30 07:19-07:52/33	20:29	19:21	17:18 15:18-16:05/47	16:41
4	05:36 18:53-20:03/70	06:14 18:47-20:07/80 20:49-20:59/10	07:02 19:58-20:00/2	07:49	07:42 15:17-16:26/69	08:30
	22:03 21:05-21:28/23	21:29 07:19-07:54/35	20:27	19:19	17:16	16:40
5	05:37 18:53-20:04/71	06:15 18:48-20:08/80 20:49-20:58/9	07:03	07:51	07:44 15:17-16:27/70	08:31
	22:03 21:06-21:28/22	21:27 07:18-07:54/36	20:24	19:17	17:14	16:40
6	05:38 18:52-20:04/72	06:17 18:48-20:07/79 20:49-20:56/7	07:05	07:53	07:45 15:17-16:28/71	08:33
	22:02 21:05-21:28/23	21:25 07:17-07:54/37	20:22	19:14	17:12	16:40
7	05:38 18:52-20:04/72	06:18 18:48-20:07/79 20:50-20:55/5	07:07	07:54	07:47 15:17-16:28/71	08:34
	22:02 21:05-21:28/23	21:24 07:17-07:55/38	20:20	19:12	17:11	16:39
8	05:39 18:52-20:05/73	06:20 18:48-20:06/78 20:50-20:53/3	07:08	07:56	07:49 15:17-16:29/72	08:35
	22:01 21:06-21:28/22	21:22 07:16-07:55/39	20:18	19:10	17:09	16:39
9	05:40 18:52-20:05/73	06:21 18:49-20:06/77	07:10	07:58	07:51 15:17-16:29/72	08:36
	22:00 21:06-21:28/22	21:20 07:16-07:56/40	20:15	19:08	17:08	16:39
10	05:41 18:52-20:05/73	06:23 18:48-20:05/77	07:11	07:59	07:52 15:17-16:30/73	08:37
	22:00 21:06-21:28/22	21:18 07:15-07:55/40	20:13	19:05	17:06	16:38
11	05:42 18:52-20:06/74	06:24 18:49-20:05/76	07:13	08:01	07:54 15:18-16:30/72	08:38
	21:59 21:07-21:27/20	21:16 07:16-07:56/40	20:11	19:03	17:04	16:38
12	05:43 18:52-20:06/74	06:26 18:49-20:04/75	07:14	08:02	07:56 15:17-16:29/72	08:39
	21:58 21:07-21:27/20	21:14 07:15-07:55/40	20:09	19:01	17:03	16:38
13	05:44 18:52-20:06/74	06:27 18:49-20:03/74	07:16	08:04	07:57 15:18-16:29/71	08:40
	21:57 21:07-21:26/19	21:13 07:14-07:55/41	20:06	18:59	17:01	16:38
14	05:45 18:51-20:07/76	06:29 18:50-20:02/72	07:18	08:06	07:59 15:18-16:29/71	08:41
	21:56 21:08-21:25/17	21:11 07:15-07:55/40	20:04	18:57	17:00	16:38
15	05:47 18:51-20:07/76	06:31 18:50-20:01/71	07:19	08:07	08:01 15:19-16:28/69	08:42
	21:56 21:08-21:24/16	21:09 07:14-07:54/40	20:02	18:55	16:59	16:38
16	05:48 18:51-20:07/76	06:32 18:51-20:00/69	07:21	08:09	08:03 16:06-16:27/21	08:43
	21:55 21:09-21:23/14	21:07 07:15-07:54/39	20:00	18:53	16:57 15:20-16:05/45	16:38
17	05:49 18:51-20:07/76	06:34 18:51-19:59/68	07:22	08:11 18:15-18:22/7	08:04 16:07-16:25/18	08:44
	21:54 21:09-21:22/13	21:05 07:15-07:53/38	19:57	18:50	16:56 15:21-16:04/43	16:39
18	05:50 18:50-20:07/77	06:35 18:52-19:58/66	07:24	08:13 18:14-18:20/6	08:06 16:08-16:24/16	08:45
	21:53 21:10-21:21/11	21:03 07:16-07:53/37	19:55	18:48	16:55 15:22-16:04/42	16:39
19	05:51 18:50-20:07/77	06:37 18:53-19:56/63	07:25	08:14 18:13-18:18/5	08:08 16:09-16:22/13	08:45
	21:51 21:10-21:20/10	21:01 07:16-07:52/36	19:53	18:46	16:54 15:22-16:03/41	16:39
20	05:53 18:50-20:09/79	06:38 18:54-19:55/61	07:27	08:16 18:13-18:17/4	08:09 16:10-16:21/11	08:46
	21:50 21:12-21:20/8	20:59 07:17-07:52/35	19:50	18:44	16:52 15:23-16:03/40	16:39
21	05:54 18:50-20:08/78	06:40 18:54-19:53/59	07:29	08:18 18:12-18:14/2	08:11 16:12-16:20/8	08:47
	21:49 21:13-21:18/5	20:57 07:17-07:50/33	19:48	18:42 16:40-16:46/6	16:51 15:24-16:02/38	16:40
22	05:55 18:50-20:08/78	06:41 18:56-19:52/56	07:30	08:19 16:34-16:51/17	08:12 16:15-16:19/4	08:47
	21:48 21:15-21:17/2	20:55 07:18-07:49/31	19:46	18:40	16:50 15:25-16:02/37	16:40
23	05:56 18:49-20:08/79	06:43 18:57-19:49/52	07:32	08:21 16:31-16:54/23	08:14 15:26-16:01/35	08:48
	21:47	20:53 07:19-07:47/28	19:44	18:38	16:49	16:41
24	05:58 18:50-20:09/79	06:45 18:59-19:48/49	07:33	08:23 16:29-16:57/28	08:16 15:27-16:00/33	08:48
	21:45	20:50 07:21-07:46/25	19:41	18:36	16:48	16:41
25	05:59 18:49-20:09/80	06:46 19:00-19:45/45	07:35	07:24 15:27-15:58/31	08:17 15:28-16:00/32	08:48
	21:44 07:34-07:37/3	20:48 07:22-07:43/21	19:39	17:34	16:47	16:42
26	06:01 18:49-20:09/80	06:48 19:02-19:43/41	07:37	07:26 15:25-16:00/35	08:19 15:29-15:58/29	08:49
	21:43 07:29-07:41/12	20:46 07:25-07:41/16	19:37	17:32	16:46	16:43
27	06:02 18:48-20:08/80 20:55-20:59/4	06:49 19:04-19:40/36	07:38	07:28 15:23-16:00/37	08:20 15:31-15:58/27	08:49
	21:41 07:28-07:44/16	20:44 07:28-07:36/8	19:35	17:30	16:45	16:44
28	06:03 18:49-20:09/80 20:54-21:02/8	06:51 19:07-19:37/30	07:40	07:30 15:22-16:01/39	08:22 15:33-15:57/24	08:49
	21:40 07:26-07:46/20	20:42	19:32	17:28	16:44	16:44
29	06:05 18:48-20:09/81 20:52-21:03/11	06:52 19:10-19:32/22	07:41	07:31 15:21-16:02/41	08:23 15:34-15:56/22	08:49
	21:38 07:24-07:47/23	20:40	19:30	17:27	16:44	16:45
30	06:06 18:48-20:08/80 20:51-21:03/12	06:54 19:19-19:24/5	07:43	07:33 15:20-16:03/43	08:25 15:36-15:55/19	08:50
	21:37 07:23-07:49/26	20:38	19:28	17:25	16:43	16:46
31	06:08 18:48-20:09/81 20:50-21:04/14	06:56 20:04-20:07/3		07:35 15:19-16:04/45		08:50
	21:35 07:22-07:50/28	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	16	369	1634	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 14:50-15:34/44	08:24 08:58-09:29/31	07:32	07:23 19:36-19:52/16	06:20 06:48-07:00/12	05:37 06:40-07:07/27
	16:48 12:37-13:24/47	17:35 17:03-17:05/2	18:25	20:17	21:06	21:51
2	08:50 14:51-15:35/44	08:23 08:57-09:29/32	07:30	07:21 19:34-19:53/19	06:18 06:45-07:03/18	05:36 06:41-07:07/26
	16:49 12:38-13:24/46	17:37 17:04-17:07/3	18:27	20:19	21:08	21:52
3	08:49 14:52-15:35/43	08:21 08:56-09:29/33	07:28	07:19 19:33-19:55/22	06:17 06:44-07:05/21	05:35 06:41-07:06/25
	16:50 12:39-13:25/46	17:38 17:06-17:07/1	18:28	20:20	21:10	21:53
4	08:49 14:52-15:35/43	08:19 08:57-09:31/34	07:26	07:17 19:33-19:57/24	06:15 06:42-07:06/24	05:34 06:43-07:07/24
	16:51 12:39-13:24/45	17:40	18:30	20:22	21:11	21:54
5	08:49 14:53-15:36/43	08:18 08:56-09:31/35	07:24	07:14 19:33-19:58/25	06:13 06:40-07:07/27	05:34 06:43-07:06/23
	16:53 12:40-13:24/44	17:42	18:32	20:24	21:13	21:55
6	08:49 14:53-15:35/42	08:16 08:56-09:31/35	07:22	07:12 19:32-19:56/24	06:11 06:40-07:08/28	05:33 06:44-07:06/22
	16:54 12:41-13:24/43	17:44	18:33	20:25	21:14	21:56
7	08:48 14:54-15:36/42	08:15 08:55-09:31/36	07:19	07:10 19:32-19:55/23	06:09 06:38-07:09/31	05:32 06:44-07:05/21
	16:55 12:42-13:24/42	17:46	18:35	20:27	21:16	21:56
8	08:48 14:54-15:36/42	08:13 08:56-09:32/36	07:17	07:08 19:32-19:54/22	06:08 06:37-07:09/32	05:32 06:45-07:05/20
	16:56 12:43-13:23/40	17:47	18:37	20:29	21:17	21:57
9	08:48 14:55-15:37/42	08:11 08:56-09:32/36	07:15	07:06 19:33-19:53/20	06:06 06:37-07:10/33	05:32 06:46-07:04/18
	16:58 12:45-13:24/39	17:49	18:39	20:30	21:19	21:58
10	08:47 14:55-15:37/42	08:09 08:56-09:31/35	07:13	07:03 19:34-19:52/18	06:04 06:36-07:10/34	05:31 06:47-07:04/17
	16:59 12:46-13:23/37	17:51	18:40	20:32	21:21	21:59
11	08:46 14:56-15:37/41	08:08 08:56-09:31/35	07:11	07:01 19:35-19:51/16	06:03 06:36-07:11/35	05:31 06:48-07:04/16
	17:00 12:47-13:22/35	17:53	18:42	20:34	21:22	22:00
12	08:46 14:57-15:37/40	08:06 08:57-09:31/34	07:08	06:59 19:36-19:48/12	06:01 06:35-07:11/36	05:30 06:49-07:03/14
	17:02 12:49-13:22/33	17:55	18:44	20:35	21:24	22:00
13	08:45 14:58-15:37/39	08:04 08:57-09:30/33	07:06	06:57 19:40-19:44/4	06:00 06:35-07:11/36	05:30 06:49-07:02/13
	17:03 12:51-13:21/30	17:56	18:45	20:37	21:25	22:01
14	08:44 14:58-15:37/39	08:02 08:58-09:29/31	07:04	06:55	05:58 06:34-07:11/37	05:30 06:50-07:02/12
	17:05 12:53-13:20/27	17:58	18:47	20:38	21:27	22:02
15	08:44 14:59-15:37/38	08:00 08:58-09:28/30	07:02	06:53	05:57 06:34-07:11/37	05:30 06:50-07:02/12
	17:06 12:55-13:18/23	18:00	18:49	20:40	21:28	22:02
16	08:43 15:00-15:37/37	07:58 08:59-09:27/28	06:59 18:25-18:26/1	06:50	05:55 06:35-07:12/37	05:30 06:51-07:01/10
	17:08 12:58-13:15/17	18:02	18:51	20:42	21:30	22:03
17	08:42 15:01-15:37/36	07:57 09:00-09:26/26	06:57 18:24-18:27/3	06:48	05:54 06:34-07:11/37	05:30 06:52-07:01/9
	17:09 13:07-13:10/3	18:04	18:52	20:43	21:31	22:03
18	08:41 15:02-15:37/35	07:55 09:02-09:24/22	06:55 18:25-18:29/4	06:46	05:52 06:34-07:11/37	05:30 06:53-07:01/8
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 15:03-15:36/33	07:53 09:04-09:21/17	06:53 18:26-18:31/5	06:44	05:51 06:35-07:11/36	05:30 06:53-07:00/7
	17:13	18:07	18:56	20:47	21:34	22:04
20	08:39 15:05-15:36/31	07:51 09:07-09:18/11	06:50	06:42	05:49 06:35-07:12/37	05:30 06:53-07:00/7
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 15:05-15:35/30	07:49	06:48	06:40	05:48 06:35-07:12/37	05:30 06:54-07:01/7
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 15:07-15:34/27	07:47	06:46	06:38	05:47 06:35-07:10/35	05:30 06:54-07:01/7
	17:17	18:13	19:01	20:52	21:38	22:05
23	08:36 15:09-15:33/24	07:45	06:44	06:36	05:46 06:35-07:10/35	05:30 06:54-07:01/7
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 15:12-15:32/20	07:43	06:41	06:34	05:45 06:36-07:10/34	05:31 06:54-07:02/8
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 15:14-15:30/16	07:41	06:39	06:32	05:43 06:36-07:10/34	05:31 06:54-07:03/9
	17:23 09:06-09:17/11	18:18	19:06	20:57	21:42	22:05
26	08:32 15:19-15:27/8	07:39	06:37	06:30	05:42 06:36-07:09/33	05:31 06:54-07:03/9
	17:24 09:04-09:20/16	18:20	19:07	20:58	21:43	22:05
27	08:31 09:02-09:22/20	07:36	06:35	06:28	05:41 06:37-07:09/32	05:32 06:54-07:04/10
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 09:01-09:24/23	07:34	06:32	06:26	05:40 06:38-07:10/32	05:32 06:53-07:05/12
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:00-09:25/25		07:30 19:42-19:47/5	06:24	05:39 06:39-07:09/30	05:33 06:53-07:06/13
	17:29		20:12	21:03	21:47	22:05
30	08:27 08:59-09:27/28		07:28 19:39-19:49/10	06:22	05:38 06:39-07:08/29	05:33 06:52-07:06/14
	17:31		20:14	21:05	21:48	22:04
31	08:26 08:58-09:27/29		07:26 19:37-19:50/13		05:37 06:39-07:08/29	
	17:33 17:01-17:03/2		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	616	41	245	985	427

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:52-07:07/15	06:09 06:45-07:21/36	06:57 19:34-19:50/16	07:45	07:37 08:26-09:01/35	08:26 14:38-15:19/41
	22:04	21:34	20:33	19:25	17:21	16:42 12:29-13:04/35
2	05:35 06:51-07:08/17	06:11 06:46-07:21/35	06:59 19:32-19:50/18	07:46	07:38 08:26-09:01/35	08:27 14:38-15:20/42
	22:04	21:32	20:31	19:23	17:19	16:42 12:29-13:06/37
3	05:35 06:51-07:09/18	06:12 06:46-07:20/34	07:00 19:31-19:52/21	07:48	07:40 08:26-09:02/36	08:29 14:38-15:20/42
	22:04	21:30	20:29	19:21	17:18	16:41 12:28-13:07/39
4	05:36 06:51-07:10/19	06:14 06:47-07:20/33	07:02 19:29-19:51/22	07:49	07:42 08:25-09:01/36	08:30 14:39-15:21/42
	22:03	21:29	20:27	19:19	17:16	16:40 12:28-13:08/40
5	05:37 06:51-07:11/20	06:15 06:48-07:19/31	07:03 19:29-19:52/23	07:51	07:44 08:25-09:01/36	08:31 14:39-15:21/42
	22:03	21:27	20:24	19:17	17:14	16:40 12:27-13:09/42
6	05:38 06:50-07:11/21	06:17 06:48-07:18/30	07:05 19:28-19:52/24	07:53	07:45 08:26-09:01/35	08:33 14:39-15:21/42
	22:02	21:25	20:22	19:14	17:12	16:40 12:27-13:10/43
7	05:38 06:49-07:12/23	06:18 06:49-07:18/29	07:07 19:28-19:53/25	07:54	07:47 08:26-09:00/34	08:34 14:40-15:23/43
	22:02	21:24	20:20	19:12	17:11	16:39 12:27-13:11/44
8	05:39 06:49-07:13/24	06:20 06:50-07:16/26	07:08 19:27-19:51/24	07:56	07:49 08:27-09:00/33	08:35 14:40-15:23/43
	22:01	21:22	20:18	19:10	17:09 16:36-16:39/3	16:39 12:27-13:12/45
9	05:40 06:49-07:14/25	06:21 06:52-07:15/23	07:10 19:28-19:49/21	07:58	07:50 08:28-09:00/32	08:36 14:40-15:23/43
	22:00	21:20	20:15	19:08	17:08 16:34-16:38/4	16:39 12:27-13:13/46
10	05:41 06:49-07:14/25	06:23 06:53-07:13/20	07:11 19:27-19:46/19	07:59	07:52 08:29-08:59/30	08:37 14:40-15:24/44
	22:00	21:18	20:13	19:05	17:06 16:33-16:36/3	16:38 12:27-13:13/46
11	05:42 06:48-07:15/27	06:24 06:55-07:12/17	07:13 19:28-19:45/17	08:01	07:54 08:30-08:59/29	08:38 14:40-15:24/44
	21:59	21:16	20:11	19:03	17:04 16:33-16:35/2	16:38 12:27-13:14/47
12	05:43 06:48-07:16/28	06:26 06:58-07:08/10	07:14 19:28-19:42/14	08:02	07:56 08:31-08:58/27	08:39 14:41-15:24/43
	21:58	21:14	20:09	19:01	17:03	16:38 12:27-13:15/48
13	05:44 06:48-07:17/29	06:27	07:16 19:30-19:40/10	08:04	07:57 08:32-08:57/25	08:40 14:41-15:25/44
	21:57	21:13	20:06	18:59	17:01	16:38 12:27-13:16/49
14	05:45 06:47-07:17/30	06:29	07:18 19:32-19:37/5	08:06	07:59 08:33-08:56/23	08:41 14:42-15:25/43
	21:56	21:11	20:04	18:57	17:00	16:38 12:27-13:16/49
15	05:47 06:47-07:18/31	06:31	07:19	08:07	08:01 08:35-08:55/20	08:42 14:42-15:26/44
	21:56	21:09	20:02	18:55	16:59	16:38 12:28-13:17/49
16	05:48 06:47-07:18/31	06:32	07:21	08:09	08:02 14:52-15:00/8	08:43 14:43-15:27/44
	21:55	21:07	20:00	18:53	16:57 08:37-08:53/16	16:38 12:28-13:18/50
17	05:49 06:46-07:19/33	06:34	07:22	08:11	08:04 14:48-15:04/16	08:44 14:43-15:27/44
	21:54	21:05	19:57	18:50	16:56 08:40-08:51/11	16:39 12:29-13:19/50
18	05:50 06:46-07:19/33	06:35	07:24	08:12	08:06 14:46-15:06/20	08:45 14:43-15:27/44
	21:52	21:03	19:55	18:48	16:55	16:39 12:28-13:18/50
19	05:51 06:46-07:20/34	06:37	07:25	08:14	08:07 14:43-15:07/24	08:45 14:44-15:28/44
	21:51	21:01	19:53	18:46	16:54	16:39 12:29-13:19/50
20	05:53 06:46-07:21/35	06:38	07:27	08:16	08:09 14:42-15:09/27	08:46 14:45-15:29/44
	21:50	20:59	19:50	18:44	16:52	16:40 12:30-13:20/50
21	05:54 06:46-07:21/35	06:40	07:29	08:18	08:11 14:41-15:11/30	08:47 14:45-15:29/44
	21:49	20:57	19:48	18:42	16:51	16:40 12:30-13:20/50
22	05:55 06:45-07:21/36	06:41	07:30	08:19 09:36-09:50/14	08:12 14:41-15:12/31	08:47 14:46-15:30/44
	21:48	20:55	19:46	18:40	16:50	16:40 12:31-13:21/50
23	05:57 06:45-07:21/36	06:43	07:32	08:21 09:34-09:52/18	08:14 14:39-15:12/33	08:48 14:46-15:30/44
	21:47	20:53	19:44	18:38	16:49	16:41 12:31-13:21/50
24	05:58 06:45-07:22/37	06:45	07:33 19:10-19:15/5	08:23 09:32-09:55/23	08:16 14:39-15:14/35	08:48 14:46-15:30/44
	21:45	20:50	19:41	18:36	16:48	16:41 12:31-13:21/50
25	05:59 06:45-07:22/37	06:46	07:35 19:08-19:12/4	07:24 08:31-08:56/25	08:17 14:39-15:15/36	08:48 14:47-15:31/44
	21:44	20:48	19:39	17:34	16:47 12:46-12:47/1	16:42 12:32-13:22/50
26	06:01 06:45-07:22/37	06:48	07:37 19:07-19:10/3	07:26 08:29-08:58/29	08:19 14:38-15:15/37	08:49 14:47-15:31/44
	21:43	20:46	19:37	17:32	16:46 12:36-12:53/17	16:43 12:33-13:23/50
27	06:02 06:45-07:23/38	06:49	07:38 19:07-19:08/1	07:28 08:28-08:58/30	08:20 14:38-15:16/38	08:49 14:48-15:32/44
	21:41	20:44	19:35	17:30	16:45 12:34-12:57/23	16:44 12:33-13:23/50
28	06:03 06:45-07:22/37	06:51	07:40	07:30 08:27-08:59/32	08:22 14:38-15:17/39	08:49 14:48-15:32/44
	21:40	20:42	19:32	17:28	16:44 12:33-12:59/26	16:44 12:34-13:23/49
29	06:05 06:45-07:22/37	06:52	07:41	07:31 08:26-09:00/34	08:23 14:38-15:17/39	08:49 14:48-15:32/44
	21:38	20:40	19:30	17:27	16:44 12:31-13:01/30	16:45 12:34-13:23/49
30	06:06 06:46-07:22/36	06:54 19:41-19:45/4	07:43	07:33 08:26-09:00/34	08:25 14:38-15:19/41	08:50 14:49-15:33/44
	21:37	20:38	19:28	17:25	16:43 12:30-13:03/33	16:46 12:35-13:23/48
31	06:08 06:46-07:22/36	06:56 19:36-19:48/12		07:35 08:26-09:01/35		08:50 14:49-15:33/44
	21:35	20:35		17:23		16:47 12:36-13:24/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	920	340	272	274	1089	2799

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 11:08-12:05/57	08:24	07:32 07:55-08:07/12	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 11:09-12:06/57	08:22	07:30 07:53-08:09/16	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 11:10-12:06/56	08:21	07:28 07:51-08:10/19	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 11:10-12:06/56	08:19	07:26 07:49-08:11/22	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 11:11-12:06/55	08:18	07:24 07:46-08:10/24	07:14	06:13	05:33
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 11:11-12:06/55	08:16	07:21 07:44-08:11/27	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 11:12-12:06/54	08:15	07:19 07:42-08:11/29	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 11:13-12:05/52	08:13	07:17 07:40-08:11/31	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 11:14-12:06/52	08:11	07:15 07:38-08:12/34	07:05	06:06	05:31
	16:57	17:49	18:38	20:30	21:19	21:58
10	08:47 11:15-12:05/50	08:09	07:13 07:35-08:10/35	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 11:16-12:05/49	08:08	07:10 07:33-08:10/37	07:01	06:03 06:28-06:29/1	05:30 06:00-06:01/1
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 11:18-12:05/47	08:06	07:08 07:31-08:10/39	06:59	06:01 06:26-06:29/3	05:30 05:59-06:00/1
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 11:19-12:04/45	08:04	07:06 07:29-08:09/40	06:57	05:59 06:25-06:29/4	05:30 05:59-06:00/1
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 11:20-12:04/44	08:02	07:04 07:26-08:07/41	06:55	05:58 06:23-06:28/5	05:30 05:59-06:00/1
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:21-12:03/42	08:00	07:02 07:24-08:06/42	06:52	05:56 06:22-06:28/6	05:30 05:59-06:00/1
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:22-12:02/40	07:58	06:59 07:22-08:04/42	06:50	05:55 06:21-06:28/7	05:29 05:59-06:00/1
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:24-12:01/37	07:56	06:57 07:19-08:01/42	06:48	05:53 06:19-06:27/8	05:29 05:59-06:00/1
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:26-12:00/34	07:55	06:55 07:17-07:59/42	06:46	05:52 06:18-06:26/8	05:29 05:59-06:00/1
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:28-11:58/30	07:53	06:53 07:17-07:54/37	06:44	05:51 06:17-06:25/8	05:29 05:59-06:00/1
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:31-11:56/25	07:51	06:50 07:16-07:53/37	06:42	05:49 06:19-06:24/5	05:29 05:59-06:00/1
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:33-11:52/19	07:49	06:48 07:16-07:52/36	06:40	05:48	05:30 06:00-06:01/1
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 11:39-11:47/8	07:47	06:46 07:16-07:52/36	06:38	05:47	05:30 06:00-06:01/1
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:43 07:16-07:51/35	06:36	05:45	05:30 06:00-06:01/1
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41 07:16-07:51/35	06:34	05:44	05:30 06:00-06:01/1
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:40	06:39 07:16-07:49/33	06:32	05:43	05:31 06:01-06:02/1
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38	06:37 07:17-07:48/31	06:30	05:42	05:31 06:01-06:02/1
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:03/3	06:34 07:18-07:47/29	06:28	05:41	05:31 06:02-06:03/1
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:05/8	06:32 07:18-07:44/26	06:26	05:40	05:32 06:02-06:03/1
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 08:20-08:42/22	06:24	05:39	05:32 06:03-06:04/1
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 08:22-08:40/18	06:22	05:38	05:33 06:03-06:04/1
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25 08:25-08:36/11		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	964	11	960	0	55	20

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:05/1	06:09 06:37-06:39/2	06:57	07:44 08:09-08:48/39	07:36	08:26 10:58-11:47/49
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:05/1	06:10	06:59	07:46 08:11-08:49/38	07:38	08:27 10:58-11:48/50
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:12-08:48/36	07:40	08:29 10:57-11:49/52
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02	07:49 08:14-08:48/34	07:42	08:30 10:58-11:50/52
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:48/32	07:43	08:31 10:58-11:51/53
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05	07:52 08:17-08:47/30	07:45	08:33 10:57-11:52/55
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:47/28	07:47	08:34 10:58-11:53/55
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:19	07:08	07:56 08:21-08:47/26	07:49	08:35 10:58-11:54/56
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:45/23	07:50	08:36 10:58-11:54/56
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41	06:23	07:11	07:59 08:24-08:44/20	07:52	08:37 10:58-11:55/57
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:26-08:43/17	07:54	08:38 10:58-11:55/57
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 08:17-08:27/10	08:02 08:28-08:42/14	07:56	08:39 10:58-11:56/58
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 08:14-08:31/17	08:04 08:29-08:39/10	07:57	08:40 10:58-11:57/59
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 08:10-08:32/22	08:06 08:31-08:37/6	07:59	08:41 10:59-11:57/58
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 08:09-08:34/25	08:07	08:01	08:42 10:59-11:58/59
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 08:07-08:35/28	08:09	08:02	08:43 10:59-11:59/60
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 08:05-08:36/31	08:11	08:04	08:44 11:00-12:00/60
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 08:04-08:36/32	08:12	08:06	08:45 11:00-12:00/60
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 08:03-08:37/34	08:14	08:07	08:45 11:00-12:00/60
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 08:03-08:38/35	08:16	08:09 11:14-11:22/8	08:46 11:01-12:01/60
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 08:01-08:37/36	08:17	08:11 11:09-11:28/19	08:47 11:01-12:01/60
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 08:01-08:38/37	08:19	08:12 11:07-11:32/25	08:47 11:02-12:02/60
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 08:00-08:37/37	08:21	08:14 11:04-11:34/30	08:48 11:02-12:02/60
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:35/6	06:44	07:33 08:00-08:37/37	08:23	08:16 11:03-11:37/34	08:48 11:02-12:02/60
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:36/8	06:46	07:35 07:59-08:41/42	07:24	08:17 11:02-11:39/37	08:48 11:04-12:03/59
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:37/8	06:48	07:36 08:01-08:43/42	07:26	08:19 11:01-11:40/39	08:49 11:04-12:04/60
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:38/8	06:49	07:38 08:03-08:46/43	07:28	08:20 11:00-11:42/42	08:49 11:04-12:04/60
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:39/7	06:51	07:40 08:04-08:46/42	07:30	08:22 11:00-11:44/44	08:49 11:05-12:04/59
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:39/6	06:52	07:41 08:06-08:47/41	07:31	08:23 10:59-11:44/45	08:49 11:05-12:04/59
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:39/5	06:54	07:43 08:07-08:47/40	07:33	08:25 10:59-11:46/47	08:50 11:06-12:05/59
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:07 06:36-06:39/3	06:55		07:35		08:50 11:07-12:05/58
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	53	2	631	353	370	1780

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:05-16:14/9 13:09-13:47/38	08:24 14:19-14:52/33	07:32 17:40-17:59/19	07:23 19:11-19:50/39	06:20	05:36
	16:48 13:48-14:59/71	17:35	18:25	20:17	21:06	21:51
2	08:50 16:05-16:15/10 13:10-13:47/37	08:23 14:22-14:49/27	07:30 17:39-18:01/22	07:21 19:11-19:50/39	06:18	05:36
	16:49 13:48-14:59/71	17:36	18:26	20:19	21:08	21:52
3	08:49 16:06-16:17/11 13:11-13:47/36	08:21 14:27-14:45/18	07:28 17:39-18:03/24	07:19 19:10-19:51/41	06:16	05:35 06:03-06:05/2
	16:50 13:49-15:00/71	17:38	18:28	20:20	21:10	21:53
4	08:49 16:05-16:17/12 13:12-13:46/34	08:19	07:26 17:38-18:05/27	07:17 19:10-19:51/41	06:15	05:34 06:02-06:06/4
	16:51 13:49-15:00/71	17:40	18:30	20:22	21:11	21:54
5	08:49 16:06-16:19/13 13:14-13:46/32	08:18	07:24 17:37-18:06/29	07:14 19:10-19:50/40	06:13	05:33 06:02-06:07/5
	16:52 13:50-15:00/70	17:42	18:32	20:24	21:13	21:55
6	08:49 16:05-16:20/15 13:14-13:45/31	08:16	07:21 17:37-18:07/30	07:12 19:09-19:49/40	06:11	05:33 06:01-06:07/6
	16:54 13:50-15:00/70	17:44	18:33	20:25	21:14	21:56
7	08:48 16:06-16:22/16 13:17-13:45/28	08:15	07:19 17:37-18:07/30	07:10 19:09-19:49/40	06:09	05:32 06:01-06:08/7
	16:55 13:51-15:01/70	17:45	18:35	20:27	21:16	21:56
8	08:48 16:06-16:22/16 13:18-13:43/25	08:13	07:17 17:37-18:07/30	07:08 19:10-19:48/38	06:08	05:32 06:01-06:10/9
	16:56 13:51-15:01/70	17:47	18:37	20:29	21:17	21:57
9	08:48 16:06-16:25/19 13:21-13:43/22	08:11	07:15 17:37-18:06/29	07:05 19:10-19:48/38	06:06	05:31 06:00-06:09/9
	16:58 13:52-15:02/70	17:49	18:39	20:30	21:19	21:58
10	08:47 16:06-16:26/20 13:23-13:41/18	08:09	07:13 17:37-18:05/28	07:03 19:11-19:47/36	06:04	05:31 06:00-06:10/10
	16:59 13:52-15:02/70	17:51	18:40	20:32	21:21	21:59
11	08:46 16:06-16:27/21 13:27-13:37/10	08:08	07:10 17:38-18:04/26	07:01 19:11-19:45/34	06:03	05:31 06:00-06:11/11
	17:00 13:53-15:01/68	17:53	18:42	20:34	21:22	22:00
12	08:46 16:07-16:29/22	08:06	07:08 17:39-18:03/24	06:59 19:11-19:44/33	06:01	05:30 05:59-06:11/12
	17:02 13:54-15:02/68	17:54	18:44	20:35	21:24	22:00
13	08:45 16:07-16:31/24	08:04	07:06 17:40-18:01/21	06:57 19:13-19:43/30	05:59 20:55-20:56/1	05:30 05:59-06:11/12
	17:03 13:55-15:02/67	17:56	18:45	20:37	21:25	22:01
14	08:45 16:07-16:32/25	08:02	07:04 17:42-17:59/17	06:55 19:14-19:41/27	05:58 20:56-20:57/1	05:30 05:59-06:12/13
	17:05 13:55-15:02/67	17:58	18:47	20:38	21:27	22:02
15	08:44 16:07-16:34/27	08:00	07:02 17:45-17:56/11	06:52 19:16-19:40/24	05:56	05:30 05:59-06:12/13
	17:06 13:56-15:02/66	18:00	18:49	20:40	21:28	22:02
16	08:43 16:08-16:35/27	07:58	06:59	06:50 19:18-19:37/19	05:55	05:30 05:59-06:13/14
	17:08 13:57-15:02/65	18:02	18:50	20:42	21:30	22:03
17	08:42 16:08-16:36/28	07:57	06:57	06:48 19:20-19:34/14	05:53	05:29 05:59-06:13/14
	17:09 13:57-15:02/65	18:03	18:52	20:43	21:31	22:03
18	08:41 16:09-16:37/28	07:55	06:55	06:46	05:52	05:29 05:59-06:13/14
	17:11 13:58-15:02/64	18:05	18:54	20:45	21:33	22:03
19	08:40 16:09-16:37/28	07:53	06:53	06:44	05:51	05:29 05:59-06:13/14
	17:12 13:59-15:02/63	18:07	18:55	20:47	21:34	22:04
20	08:39 16:10-16:37/27	07:51	06:50	06:42	05:49	05:30 05:59-06:13/14
	17:14 14:00-15:02/62	18:09	18:57	20:48	21:35	22:04
21	08:38 16:10-16:37/27	07:49	06:48	06:40	05:48	05:30 05:59-06:14/15
	17:16 14:01-15:01/60	18:11	18:59	20:50	21:37	22:04
22	08:37 16:11-16:37/26	07:47	06:46	06:38	05:47	05:30 06:00-06:14/14
	17:17 14:02-15:01/59	18:12	19:00	20:52	21:38	22:05
23	08:36 16:12-16:37/25	07:45	06:44 18:28-18:37/9	06:36	05:46	05:30 06:00-06:14/14
	17:19 14:03-15:01/58	18:14	19:02	20:53	21:40	22:05
24	08:35 16:13-16:37/24	07:43	06:41 18:23-18:38/15	06:34	05:44	05:30 06:00-06:14/14
	17:21 14:05-15:01/56	18:16	19:04	20:55	21:41	22:05
25	08:34 16:13-16:36/23	07:41 17:48-17:52/4	06:39 18:21-18:40/19	06:32	05:43	05:31 06:01-06:15/14
	17:22 14:05-15:00/55	18:18	19:05	20:57	21:42	22:05
26	08:32 16:15-16:36/21	07:38 17:46-17:54/8	06:37 18:19-18:42/23	06:30	05:42	05:31 06:01-06:15/14
	17:24 14:07-14:59/52	18:19	19:07	20:58	21:43	22:05
27	08:31 16:16-16:34/18	07:36 17:44-17:56/12	06:35 18:17-18:44/27	06:28	05:41	05:32 06:02-06:15/13
	17:26 14:08-14:58/50	18:21	19:09	21:00	21:45	22:05
28	08:30 16:18-16:34/16	07:34 17:41-17:57/16	06:32 18:15-18:45/30	06:26	05:40	05:32 06:02-06:15/13
	17:28 14:10-14:58/48	18:23	19:10	21:01	21:46	22:05
29	08:28 16:20-16:32/12		07:30 19:14-19:47/33	06:24	05:39	05:33 06:03-06:16/13
	17:29 14:11-14:56/45		20:12	21:03	21:47	22:05
30	08:27 16:24-16:29/5		07:28 19:13-19:49/36	06:22	05:38	05:33 06:03-06:15/12
	17:31 14:14-14:55/41		20:14	21:05	21:48	22:04
31	08:26 14:16-14:53/37		07:26 19:13-19:50/37		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2826	118	596	573	2	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11 22:04	06:09 21:34	06:57 19:10-19:45/35 20:33	07:44 18:19-18:42/23 19:25	07:37 17:21	08:26 15:48-16:09/21 13:10-13:19/9 16:42 13:35-14:44/69
2	05:34 06:04-06:15/11 22:04	06:11 21:32	06:59 19:09-19:45/36 20:31	07:46 18:17-18:43/26 19:23	07:38 17:19	08:27 15:49-16:09/20 13:07-13:23/16 16:41 13:36-14:45/69
3	05:35 06:05-06:15/10 22:04	06:12 21:30	07:00 19:08-19:46/38 20:29	07:48 18:16-18:43/27 19:21	07:40 17:17	08:29 15:49-16:08/19 13:04-13:26/22 16:41 13:35-14:45/70
4	05:36 06:06-06:15/9 22:03	06:14 21:29	07:02 19:07-19:45/38 20:27	07:49 18:15-18:43/28 19:19	07:42 17:16	08:30 15:51-16:08/17 13:03-13:28/25 16:40 13:36-14:46/70
5	05:37 06:07-06:15/8 22:03	06:15 21:27	07:03 19:07-19:46/39 20:24	07:51 18:14-18:44/30 19:16	07:44 17:14	08:31 15:51-16:07/16 13:02-13:30/28 16:40 13:36-14:46/70
6	05:37 06:07-06:14/7 22:02	06:17 21:25	07:05 19:05-19:45/40 20:22	07:53 18:13-18:43/30 19:14	07:45 17:12	08:33 15:51-16:06/15 13:01-13:31/30 16:39 13:36-14:46/70
7	05:38 06:08-06:14/6 22:02	06:18 21:24	07:07 19:05-19:46/41 20:20	07:54 18:13-18:43/30 19:12	07:47 14:05-14:08/3 17:11	08:34 15:53-16:06/13 13:01-13:33/32 16:39 13:37-14:47/70
8	05:39 06:09-06:13/4 22:01	06:20 21:22	07:08 19:04-19:45/41 20:18	07:56 18:13-18:43/30 19:10	07:49 13:57-14:16/19 17:09	08:35 15:53-16:05/12 13:00-13:34/34 16:39 13:37-14:48/71
9	05:40 06:10-06:13/3 22:00	06:21 21:20	07:10 19:05-19:45/40 20:15	07:57 18:12-18:40/28 19:08	07:50 13:53-14:20/27 17:07	08:36 15:54-16:05/11 13:00-13:35/35 16:38 13:37-14:48/71
10	05:41 06:11-06:12/1 22:00	06:23 21:18	07:11 19:04-19:44/40 20:13	07:59 18:13-18:38/25 19:05	07:52 13:50-14:23/33 17:06	08:37 15:54-16:04/10 12:59-13:36/37 16:38 13:37-14:48/71
11	05:42 21:59	06:24 21:16	07:13 19:04-19:43/39 20:11	08:01 18:13-18:36/23 19:03	07:54 13:47-14:25/38 17:04	08:38 15:55-16:04/9 12:59-13:37/38 16:38 13:38-14:49/71
12	05:43 21:58	06:26 21:14	07:14 19:04-19:42/38 20:09	08:02 18:13-18:33/20 19:01	07:56 15:54-16:00/6 17:03 13:45-14:26/41	08:39 15:56-16:04/8 12:59-13:37/38 16:38 13:38-14:49/71
13	05:44 21:57	06:27 21:13	07:16 19:05-19:40/35 20:06	08:04 18:14-18:31/17 18:59	07:57 15:51-16:04/13 17:01 13:43-14:28/45	08:40 15:56-16:04/8 16:38 12:59-14:50/111
14	05:45 21:56	06:29 21:11	07:17 19:04-19:37/33 20:04	08:06 18:15-18:29/14 18:57	07:59 15:50-16:06/16 17:00 13:42-14:30/48	08:41 15:57-16:04/7 16:38 12:59-14:50/111
15	05:46 21:56	06:30 21:09	07:19 19:05-19:35/30 20:02	08:07 18:17-18:27/10 18:55	08:01 15:49-16:07/18 16:59 13:41-14:31/50	08:42 15:58-16:04/6 16:38 12:59-14:51/112
16	05:48 21:55	06:32 21:07	07:21 19:06-19:33/27 20:00	08:09 18:18-18:24/6 18:52	08:02 15:48-16:09/21 16:57 13:40-14:32/52	08:43 15:59-16:04/5 16:38 12:59-14:52/113
17	05:49 21:54	06:34 21:05	07:22 19:07-19:31/24 19:57	08:11 18:21-18:22/1 18:50	08:04 15:47-16:10/23 16:56 13:39-14:34/55	08:44 16:00-16:05/5 16:38 13:00-14:52/112
18	05:50 21:53	06:35 21:03	07:24 19:08-19:28/20 19:55	08:12 18:48	08:06 15:47-16:11/24 16:55 13:39-14:35/56	08:45 16:00-16:04/4 16:39 13:00-14:52/112
19	05:51 21:51	06:37 21:01	07:25 19:10-19:26/16 19:53	08:14 18:46	08:08 15:46-16:11/25 16:53 13:37-14:35/58	08:45 16:00-16:05/5 16:39 13:00-14:53/113
20	05:52 21:50	06:38 20:59	07:27 19:13-19:24/11 19:50	08:16 18:44	08:09 15:46-16:12/26 16:52 13:37-14:36/59	08:46 16:01-16:05/4 16:39 13:01-14:54/113
21	05:54 21:49	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:46-16:13/27 16:51 13:37-14:37/60	08:47 16:01-16:05/4 16:40 13:01-14:54/113
22	05:55 21:48	06:41 20:55	07:30 19:46	08:19 18:40	08:12 15:46-16:13/27 16:50 13:36-14:38/62	08:47 16:02-16:06/4 16:40 13:02-14:55/113
23	05:56 21:47	06:43 20:53	07:32 19:44	08:21 18:38	08:14 15:45-16:13/28 16:49 13:35-14:38/63	08:48 16:02-16:06/4 16:41 13:02-14:55/113
24	05:58 21:45	06:45 20:50	07:33 19:41	08:23 18:36	08:16 15:46-16:14/28 16:48 13:35-14:39/64	08:48 16:02-16:07/5 16:41 13:03-14:55/112
25	05:59 21:44	06:46 19:29-19:31/2 20:48	07:35 19:39	07:24 17:34	08:17 15:46-16:14/28 16:47 13:36-14:40/64	08:48 16:04-16:08/4 16:42 13:03-14:56/113
26	06:00 21:43	06:48 19:23-19:37/14 20:46	07:36 19:37	07:26 17:32	08:19 15:46-16:13/27 16:46 13:35-14:40/65	08:49 16:04-16:08/4 16:43 13:04-14:56/112
27	06:02 21:41	06:49 19:19-19:39/20 20:44	07:38 19:34	07:28 17:30	08:20 15:47-16:13/26 16:45 13:35-14:41/66	08:49 16:04-16:09/5 16:43 13:04-14:56/112
28	06:03 21:40	06:51 19:17-19:42/25 20:42	07:40 18:27-18:36/9 19:32	07:30 17:28	08:22 15:47-16:12/25 16:44 13:35-14:42/67	08:49 16:04-16:10/6 16:44 13:05-14:57/112
29	06:05 21:38	06:52 19:15-19:42/27 20:40	07:41 18:23-18:39/16 19:30	07:31 17:26	08:23 15:47-16:11/24 16:43 13:35-14:42/67	08:49 16:04-16:10/6 16:45 13:06-14:57/111
30	06:06 21:06-21:07/1 21:37	06:54 19:13-19:44/31 20:38	07:43 18:20-18:40/20 19:28	07:33 17:25	08:25 15:48-16:10/22 16:43 13:35-14:43/68	08:50 16:04-16:11/7 16:46 13:06-14:58/112
31	06:08 21:05-21:06/1 21:35	06:56 19:11-19:44/33 20:35		07:35 17:23		08:50 16:04-16:12/8 13:07-13:46/39 16:47 13:47-14:58/71
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	72	152	706	368	1664	3589

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 09:18-09:25/7 17:35	07:32 08:04-08:08/4 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:49/1 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 08:11-08:12/1 19:23	07:38 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:48/2 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:10-08:12/2 17:17	08:29 16:41
4	08:49 16:51	08:19 08:45-08:46/1 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:14/5 17:16	08:30 16:40
5	08:49 16:52	08:18 08:43-08:46/3 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:33 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:11-08:15/4 17:14	08:31 16:40
6	08:48 16:54	08:16 08:41-08:45/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:13-08:15/2 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:44/5 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:15-08:17/2 17:11	08:34 16:39
8	08:48 16:56	08:13 08:41-08:42/1 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:19/2 17:09	08:35 16:39
9	08:47 16:58	08:11 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 17:07	08:36 16:38
10	08:47 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:48-08:56/8 17:06	08:37 16:38
11	08:46 17:00	08:07 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:46-08:58/12 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 07:31-07:32/1 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:45-08:59/14 17:03	08:39 16:38
13	08:45 09:14-09:20/6 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 08:36-08:43/7 18:59	07:57 08:44-09:01/17 17:01	08:40 16:38
14	08:44 09:13-09:22/9 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 08:34-08:44/10 18:57	07:59 08:44-09:02/18 17:00	08:41 16:38
15	08:43 09:12-09:23/11 17:06	08:00 08:24-08:26/2 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 08:34-08:45/11 18:55	08:01 08:44-09:02/18 16:59	08:42 16:38
16	08:43 09:11-09:24/13 17:08	07:58 08:22-08:25/3 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 08:34-08:54/20 18:52	08:02 08:44-09:03/19 16:57	08:43 16:38
17	08:42 09:10-09:25/15 17:09	07:56 08:20-08:25/5 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 08:36-08:56/20 18:50	08:04 08:44-09:04/20 16:56	08:44 16:38
18	08:41 09:10-09:26/16 17:11	07:54 08:18-08:23/5 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 08:38-08:57/19 18:48	08:06 08:43-09:03/20 16:55	08:44 16:39
19	08:40 09:10-09:27/17 17:12	07:52 08:16-08:25/9 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:29 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 08:40-08:57/17 18:46	08:07 08:44-09:04/20 16:53	08:45 16:39
20	08:39 09:09-09:27/18 17:14	07:50 08:14-08:25/11 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 08:42-08:57/15 18:44	08:09 08:44-09:04/20 16:52	08:46 16:39
21	08:38 09:09-09:28/19 17:16 09:05-09:06/1	07:48 08:12-08:26/14 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 08:43-08:56/13 18:42	08:11 08:45-09:04/19 16:51	08:46 16:40
22	08:37 09:09-09:29/20 17:17 09:04-09:07/3	07:46 08:10-08:26/16 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 08:45-08:56/11 18:40	08:12 08:45-09:03/18 16:50	08:47 16:40
23	08:36 09:10-09:30/20 17:19 09:03-09:07/4	07:44 08:08-08:26/18 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 08:47-08:55/8 18:38	08:14 08:46-09:03/17 16:49	08:47 16:41
24	08:35 09:09-09:29/20 17:21 09:02-09:08/6	07:42 08:06-08:25/19 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 08:49-08:54/5 18:36	08:15 08:47-09:04/17 16:48	08:48 16:41
25	08:33 09:10-09:30/20 17:22 09:00-09:07/7	07:40 08:04-08:24/20 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 07:51-07:56/5 17:34	08:17 08:48-09:04/16 16:47	08:48 16:42
26	08:32 09:11-09:30/19 17:24 09:00-09:06/6	07:38 08:02-08:13/11 18:19 08:14-08:22/8	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 07:53-07:56/3 17:32	08:18 08:49-09:02/13 16:46	08:49 16:43
27	08:31 09:11-09:29/18 17:26	07:36 08:02-08:13/11 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 07:54-07:55/1 17:30	08:20 08:51-09:02/11 16:45	08:49 16:43
28	08:29 09:12-09:30/18 17:28	07:34 08:02-08:11/9 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 08:53-09:02/9 16:44	08:49 16:44
29	08:28 09:12-09:29/17 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 08:54-09:00/6 16:43	08:49 16:45
30	08:27 09:14-09:28/14 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 17:25	08:24 16:43	08:49 16:46
31	08:25 09:15-09:27/12 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	329	185	5	0	0	0	0	0	0	172	356	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January		February		March	April	May	June	July	August	September	October	November		December
1	08:49		08:24	08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36		08:26
	16:48		17:35		18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21		16:42
2	08:49		08:22	08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38		08:27
	16:49		17:36		18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19		16:41
3	08:49		08:21	08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40		08:29
	16:50		17:38		18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17		16:41
4	08:49		08:19	08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42		08:30
	16:51		17:40		18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16		16:40
5	08:49		08:18	08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43		08:31
	16:53		17:42		18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14		16:40
6	08:48		08:16		07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45	08:16-08:23/7	08:32
	16:54		17:44		18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12		16:39
7	08:48		08:14		07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:15-08:25/10	08:34
	16:55		17:45		18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11		16:39
8	08:48		08:13		07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:17-08:26/9	08:35
	16:56		17:47		18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09		16:39
9	08:47		08:11		07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:19-08:26/7	08:36
	16:58		17:49		18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07		16:39
10	08:47		08:09		07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:21-08:27/6	08:37
	16:59		17:51		18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06		16:38
11	08:46		08:07		07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:23-08:27/4	08:38
	17:00		17:53		18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04		16:38
12	08:46		08:06		07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55	08:24-08:26/2	08:39
	17:02		17:54		18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03		16:38
13	08:45		08:04		07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:26-08:27/1	08:40
	17:03		17:56		18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01		16:38
14	08:44		08:02		07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:38-08:45/7	08:41
	17:05		17:58		18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00		16:38
15	08:43		08:00		07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:37-08:47/10	08:42
	17:06		18:00		18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59		16:38
16	08:43		07:58		06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:37-08:48/11	08:43
	17:08		18:02		18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57		16:38
17	08:42	09:10-09:12/2	07:56		06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:36-08:49/13	08:44
	17:09		18:03		18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56		16:38
18	08:41	09:09-09:13/4	07:54		06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:35-08:49/14	08:44
	17:11		18:05		18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55		16:39
19	08:40	09:08-09:14/6	07:52		06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:37-08:50/13	08:45
	17:12		18:07		18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53		16:39
20	08:39	09:06-09:14/8	07:50		06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09	08:39-08:50/11	08:46
	17:14		18:09		18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52		16:39
21	08:38	09:05-09:14/9	07:48		06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11	08:41-08:50/9	08:46
	17:16		18:11		18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51		16:40
22	08:37	09:04-09:15/11	07:46		06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:43-08:51/8	08:47
	17:17		18:12		19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50		16:40
23	08:36	09:03-09:16/13	07:44		06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:44-08:50/6	08:47
	17:19		18:14		19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49		16:41
24	08:35	09:01-09:15/14	07:42		06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15	08:46-08:50/4	08:48
	17:21		18:16		19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48		16:41
25	08:33	09:02-09:15/13	07:40		06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48-08:50/2	08:48
	17:22		18:18		19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47		16:42
26	08:32	09:04-09:15/11	07:38		06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18		08:49
	17:24		18:19		19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46		16:43
27	08:31	09:04-09:14/10	07:36		06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20		08:49
	17:26		18:21		19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45		16:43
28	08:29	09:06-09:13/7	07:34		06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21		08:49
	17:28		18:23		19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44		16:44
29	08:28	08:54-08:55/1			07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23		08:49
	17:29				20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43		16:45
30	08:27	08:53-08:55/2			07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24		08:49
	17:31				20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43		16:46
31	08:25	08:51-08:55/4			07:25		05:37		06:08	06:55		07:35			08:49
	17:33				20:15		21:49		21:35	20:35		17:23			16:47
Potential sun hours	262		279		367	414	482	494	498	451	380	333	269		248
Sum of minutes with flicker	115		37		0	0	0	0	0	0	0	0	154		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 08:50-08:57/7 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:04-08:10/6 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:57/9 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:06-08:11/5 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:56/10 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:07-08:10/3 17:17	08:29 16:41
4	08:49 16:51	08:19 08:46-08:56/10 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:10/1 17:16	08:30 16:40
5	08:49 16:53	08:18 08:47-08:55/8 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:34 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:18-08:23/5 17:14	08:31 16:40
6	08:48 16:54	08:16 08:49-08:53/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:17-08:25/8 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:40/1 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:16-08:26/10 17:11	08:34 16:39
8	08:48 16:56	08:13 08:38-08:41/3 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:27/10 17:09	08:35 16:39
9	08:47 16:58	08:11 08:36-08:41/5 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 08:19-08:28/9 17:07	08:36 16:39
10	08:47 16:59	08:09 08:34-08:40/6 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:21-08:28/7 17:06	08:37 16:38
11	08:46 17:00	08:07 08:32-08:39/7 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:22-08:27/5 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:24-08:27/3 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:43 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:55	08:44 16:39
19	08:40 17:12	07:52 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:50 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:48 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 18:42	08:11 16:51	08:46 16:40
22	08:37 17:17	07:46 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:47 16:41
24	08:35 17:21	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 18:36	08:15 16:48	08:48 16:41
25	08:33 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 17:32	08:18 16:46	08:48 16:43
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:29 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 16:44	08:49 16:44
29	08:28 08:54-08:55/1 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 08:53-08:56/3 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 08:04-08:06/2 17:25	08:24 16:43	08:49 16:46
31	08:25 08:51-08:56/5 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 08:02-08:09/7 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:26/6	08:24 08:50-08:54/4	07:32 07:55-08:17/22	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:27/7	08:22 08:48-08:52/4	07:30 07:53-08:18/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:27/7	08:21	07:28 07:51-07:52/1	07:19	06:16	05:35
	16:50	17:38	18:28 07:53-08:19/26	20:20	21:09	21:53
4	08:49 09:19-09:26/7	08:19	07:26 07:49-08:19/30	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:20-09:26/6	08:18	07:24 07:46-08:18/32	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:20-09:25/5	08:16	07:21 07:44-08:18/34	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:23-09:24/1	08:14	07:19 07:42-08:18/36	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:40-08:18/38	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15 07:38-08:17/39	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:37-08:15/38	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08	07:10 07:38-08:14/36	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08 07:39-07:52/13	06:59	06:01	05:30
	17:02	17:54	18:44 07:54-08:13/19	20:35	21:24	22:00
13	08:45	08:04	07:06 07:40-07:50/10	06:57	05:59	05:30
	17:03	17:56	18:45 07:56-08:10/14	20:37	21:25	22:01
14	08:44	08:02	07:04 07:58-08:06/8	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02 17:32-17:34/2	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:23/3	06:57	06:48	05:53	05:29
	17:09	18:03 17:32-17:36/4	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:22/4	06:55	06:46	05:52	05:29
	17:11	18:05 17:33-17:38/5	18:54	20:45	21:32	22:03
19	08:40	07:53 08:16-08:21/5	06:53	06:44	05:51	05:30
	17:12	18:07 17:34-17:40/6	18:55	20:47	21:34	22:04
20	08:39	07:51 08:16-08:19/3	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:15/15	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:16/19	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	44	92	421	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 21:33	06:57 20:33	07:44 08:18-08:30/12 19:25 08:33-08:51/18	07:36 17:21	08:26 16:42
2	05:34 22:04	06:11 21:32	06:59 20:31	07:46 08:17-08:52/35 19:23	07:38 17:19	08:27 16:41
3	05:35 22:03	06:12 21:30	07:00 20:29	07:48 08:15-08:53/38 19:21	07:40 17:17	08:29 16:41
4	05:36 22:03	06:14 21:29	07:02 20:27	07:49 08:15-08:54/39 19:19	07:42 17:16	08:30 16:40
5	05:37 22:03	06:15 21:27	07:03 20:24	07:51 08:16-08:54/38 19:16	07:43 17:14	08:31 16:40
6	05:37 22:02	06:17 21:25	07:05 20:22	07:52 08:17-08:54/37 19:14	07:45 17:12	08:33 09:06-09:11/5 16:39
7	05:38 22:02	06:18 21:23	07:06 20:20	07:54 08:19-08:54/35 19:12	07:47 17:11	08:34 09:07-09:13/6 16:39
8	05:39 22:01	06:20 21:22	07:08 20:18	07:56 08:21-08:54/33 19:10	07:49 17:09	08:35 09:07-09:14/7 16:39
9	05:40 22:00	06:21 21:20	07:10 20:15	07:57 08:22-08:53/31 19:08	07:50 08:19-08:23/4 17:07	08:36 09:08-09:15/7 16:39
10	05:41 22:00	06:23 21:18	07:11 20:13	07:59 08:24-08:53/29 19:05	07:52 08:21-08:25/4 17:06	08:37 09:09-09:16/7 16:38
11	05:42 21:59	06:24 21:16	07:13 20:11	08:01 08:27-08:52/25 19:03	07:54 08:23-08:26/3 17:04	08:38 09:10-09:16/6 16:38
12	05:43 21:58	06:26 21:14	07:14 20:09	08:02 08:27-08:51/24 19:01	07:56 08:24-08:26/2 17:03	08:39 09:11-09:17/6 16:38
13	05:44 21:57	06:27 21:12	07:16 20:06	08:04 08:29-08:50/21 18:59	07:57 17:01	08:40 09:12-09:18/6 16:38
14	05:45 21:56	06:29 21:11	07:17 20:04	08:06 08:31-08:49/18 18:57	07:59 17:00	08:41 09:13-09:18/5 16:38
15	05:46 21:55	06:30 21:09	07:19 20:02	08:07 08:33-08:47/14 18:55	08:01 16:59	08:42 09:14-09:19/5 16:38
16	05:48 21:54	06:32 21:07	07:21 19:59	08:09 08:34-08:43/9 18:52	08:02 16:57	08:43 09:15-09:20/5 16:38
17	05:49 21:53	06:34 21:05	07:22 19:57	08:11 08:36-08:38/2 18:50	08:04 16:56	08:44 09:16-09:20/4 16:38
18	05:50 21:52	06:35 21:03	07:24 19:55	08:12 08:38-08:39/1 18:48	08:06 16:55	08:44 09:16-09:20/4 16:39
19	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 09:17-09:21/4 16:39
20	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 09:18-09:22/4 16:39
21	05:54 21:49	06:40 20:57	07:28 19:48	08:17 18:42	08:11 16:51	08:46 09:18-09:22/4 16:40
22	05:55 21:48	06:41 20:55	07:30 19:46	08:19 08:45-08:50/5 18:40 18:07-18:10/3	08:12 16:50	08:47 09:19-09:23/4 16:40
23	05:56 21:46	06:43 20:52	07:32 19:43	08:21 08:47-08:52/5 18:38 18:04-18:10/6	08:14 16:49	08:47 09:19-09:23/4 16:41
24	05:58 21:45	06:44 20:50	07:33 19:41	08:23 08:49-08:53/4 18:36 18:03-18:08/5	08:15 16:48	08:48 09:19-09:23/4 16:41
25	05:59 21:44	06:46 20:48	07:35 19:39	07:24 07:51-07:54/3 17:34 17:02-17:05/3	08:17 16:47	08:48 09:20-09:24/4 16:42
26	06:00 21:42	06:48 20:46	07:36 19:37	07:26 07:53-07:54/1 17:32 17:01-17:03/2	08:19 16:46	08:49 09:20-09:24/4 16:43
27	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 09:20-09:25/5 16:43
28	06:03 21:40	06:51 20:42	07:40 19:32	07:29 17:28	08:22 16:44	08:49 09:20-09:25/5 16:44
29	06:05 21:38	06:52 20:40	07:41 08:41-08:45/4 19:30	07:31 17:26	08:23 16:44	08:49 09:20-09:25/5 16:45
30	06:06 21:37	06:54 20:38	07:43 08:20-08:28/8 19:28 08:35-08:48/13	07:33 17:25	08:24 16:43	08:49 09:20-09:25/5 16:46
31	06:08 21:35	06:55 20:35		07:35 17:23		08:49 09:20-09:26/6 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	496	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April	May	June
1	08:49		08:24	08:50-08:57/7	07:32		07:23	06:20	05:36
	16:48		17:35	09:06-09:28/22	18:25		20:17	21:06	21:50
2	08:49		08:22	08:48-08:56/8	07:30		07:21	06:18	05:36
	16:49		17:36	09:07-09:27/20	18:26		20:19	21:08	21:51
3	08:49		08:21	08:46-08:55/9	07:28		07:19	06:16	05:35
	16:50		17:38	09:08-09:26/18	18:28		20:20	21:09	21:52
4	08:49		08:19	08:45-08:55/10	07:26		07:16	06:15	05:34
	16:51		17:40	09:10-09:25/15	18:30		20:22	21:11	21:53
5	08:49		08:18	08:43-08:55/12	07:24		07:14	06:13	05:34
	16:53		17:42	09:13-09:22/9	18:32		20:24	21:13	21:54
6	08:49		08:16	08:41-08:56/15	07:21	07:44-07:45/1	07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48		08:14	08:39-08:56/17	07:19	07:42-07:44/2	07:10	06:09	05:32
	16:55		17:45		18:35		20:27	21:16	21:56
8	08:48		08:13	08:38-08:56/18	07:17	07:40-07:42/2	07:08	06:08	05:32
	16:56		17:47		18:37		20:28	21:17	21:57
9	08:47	09:17-09:18/1	08:11	08:36-08:56/20	07:15		07:05	06:06	05:31
	16:58		17:49		18:38		20:30	21:19	21:58
10	08:47	09:16-09:18/2	08:09	08:34-08:55/21	07:13		07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46	09:15-09:18/3	08:07	08:37-08:55/18	07:10		07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46	09:14-09:19/5	08:06	08:38-08:54/16	07:08		06:59	06:01	05:30
	17:02	16:27-16:28/1	17:54		18:44		20:35	21:23	22:00
13	08:45	09:14-09:19/5	08:04	08:39-08:52/13	07:06		06:57	05:59	05:30
	17:03	16:26-16:30/4	17:56		18:45		20:37	21:25	22:01
14	08:44	09:13-09:21/8	08:02	08:42-08:50/8	07:04		06:55	05:58	05:30
	17:05	16:28-16:32/4	17:58		18:47		20:38	21:27	22:01
15	08:44	09:12-09:22/10	08:00		07:01		06:52	05:56	05:30
	17:06	16:28-16:34/6	18:00		18:49		20:40	21:28	22:02
16	08:43	09:11-09:23/12	07:58	08:22-08:23/1	06:59		06:50	05:55	05:30
	17:08	16:28-16:36/8	18:02		18:50		20:42	21:29	22:02
17	08:42	09:10-09:24/14	07:56	08:20-08:22/2	06:57		06:48	05:53	05:30
	17:09	16:28-16:37/9	18:03		18:52		20:43	21:31	22:03
18	08:41	09:09-09:25/16	07:54	08:18-08:19/1	06:55		06:46	05:52	05:30
	17:11	16:29-16:39/10	18:05		18:54		20:45	21:32	22:03
19	08:40	09:08-09:26/18	07:53		06:53		06:44	05:51	05:30
	17:12	16:30-16:41/11	18:07		18:55		20:47	21:34	22:04
20	08:39	09:06-09:26/20	07:51		06:50		06:42	05:49	05:30
	17:14	16:29-16:42/13	18:09		18:57		20:48	21:35	22:04
21	08:38	09:05-09:27/22	07:49		06:48		06:40	05:48	05:30
	17:16	16:31-16:44/13	18:11		18:59		20:50	21:37	22:04
22	08:37	09:04-09:28/24	07:47		06:46		06:38	05:47	05:30
	17:17	16:32-16:44/12	18:12		19:00		20:51	21:38	22:04
23	08:36	09:03-09:28/25	07:45		06:43		06:36	05:46	05:30
	17:19	16:33-16:44/11	18:14		19:02		20:53	21:39	22:05
24	08:35	09:02-09:28/26	07:42		06:41		06:34	05:44	05:30
	17:21	16:35-16:42/7	18:16		19:04		20:55	21:41	22:05
25	08:33	09:02-09:29/27	07:40		06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32	09:03-09:29/26	07:38		06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31	09:03-09:29/26	07:36		06:34		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30	08:56-08:57/1	07:34		06:32		06:26	05:40	05:32
	17:28	09:03-09:30/27	18:23		19:10		21:01	21:46	22:05
29	08:28	08:54-08:57/3			07:30		06:24	05:39	05:33
	17:29	09:03-09:29/26			20:12		21:03	21:47	22:04
30	08:27	08:53-08:58/5			07:28		06:22	05:38	05:33
	17:31	09:05-09:29/24			20:14		21:05	21:48	22:04
31	08:25	08:51-08:57/6			07:25			05:37	
	17:33	09:05-09:28/23			20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	514		280		5		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:19/2	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54	08:19-08:21/2	07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55	16:09-16:16/7	16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53	16:07-16:18/11	16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52	16:07-16:19/12	16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51	16:07-16:20/13	16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50	16:06-16:18/12	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49	16:06-16:17/11	16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48	16:06-16:16/10	16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47	16:06-16:15/9	16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46	16:06-16:14/8	16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45	16:07-16:13/6	16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44	16:07-16:12/5	16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44	16:08-16:11/3	16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43	16:09-16:11/2	16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	63		728		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:31-09:50/19	08:24	07:32	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:32-09:51/19	08:22	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:31-09:50/19	08:21	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49 09:33-09:51/18	08:19	07:26	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49 09:34-09:51/17	08:18	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:34-09:50/16	08:16	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:35-09:51/16	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:36-09:50/14	08:13 08:38-08:39/1	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:38-09:50/12	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47 09:39-09:49/10	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:16/1	08:07	07:10	07:01	06:03	05:31
	17:00 09:41-09:48/7	17:53	18:42	20:33	21:22	21:59
12	08:46 09:14-09:17/3	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:18/4	08:04	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:19/6	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:20/8	08:00	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:20/9	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:21/11	07:56	06:57	06:48	05:54	05:30
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:21/12	07:54	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:22/14	07:52	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:22/15	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:21/16	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:05-09:21/16	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:06-09:22/16	07:45	06:43	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:06-09:20/14	07:42 08:06-08:07/1	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:08-09:20/12	07:40 08:04-08:06/2	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 08:59-09:01/2	07:38	06:37	06:30	05:42	05:31
	17:24 09:09-09:19/10	18:19	19:07	20:58	21:43	22:05
27	08:31 08:57-09:00/3	07:36	06:34	06:28	05:41	05:32
	17:26 09:11-09:17/6	18:21	19:09	21:00	21:44	22:05
28	08:30 08:56-09:00/4	07:34	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 08:54-08:58/4		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:04	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	353	5	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44	07:36	08:26 08:57-08:58/1
	22:04	21:33	20:33	19:25	17:21	16:42 09:23-09:30/7
2	05:34	06:11	06:59	07:46	07:38	08:27 09:22-09:32/10
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48	07:40 08:08-08:09/1	08:29 09:21-09:33/12
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49	07:42 08:09-08:10/1	08:30 09:21-09:35/14
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51	07:43	08:31 09:21-09:36/15
	22:02	21:27	20:24	19:16	17:14	16:40
6	05:38	06:17	07:05	07:52	07:45	08:32 09:20-09:36/16
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54	07:47	08:34 09:20-09:37/17
	22:01	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56	07:49	08:35 09:21-09:39/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57	07:50	08:36 09:21-09:39/18
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59	07:52	08:37 09:21-09:40/19
	21:59	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01	07:54	08:38 09:21-09:40/19
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02	07:55	08:39 09:21-09:41/20
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04	07:57 08:26-08:30/4	08:40 09:21-09:41/20
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06	07:59 08:28-08:32/4	08:41 09:22-09:42/20
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07	08:01 08:30-08:33/3	08:42 09:22-09:43/21
	21:55	21:09	20:02	18:55	16:59 08:44-08:50/6	16:38
16	05:48	06:32	07:21	08:09 08:35-08:36/1	08:02 08:32-08:34/2	08:43 09:23-09:44/21
	21:54	21:07	19:59	18:52	16:57 08:42-08:52/10	16:38 09:17-09:19/2
17	05:49	06:34	07:22	08:11 08:36-08:37/1	08:04 08:42-08:54/12	08:44 09:23-09:44/21
	21:53	21:05	19:57	18:50	16:56	16:39 09:17-09:20/3
18	05:50	06:35	07:24	08:12	08:06 08:40-08:54/14	08:44 09:23-09:44/21 09:16-09:21/5
	21:52	21:03	19:55	18:48	16:55	16:39 15:52-15:54/2
19	05:51	06:37	07:25	08:14	08:07 08:40-08:56/16	08:45 09:24-09:45/21 09:17-09:22/5
	21:51	21:01	19:53	18:46	16:53	16:39 15:53-15:55/2
20	05:53	06:38	07:27	08:16	08:09 08:40-08:56/16	08:46 09:25-09:46/21 09:18-09:23/5
	21:50	20:59	19:50	18:44	16:52	16:39 15:52-15:56/4
21	05:54	06:40	07:28	08:17	08:11 08:41-08:57/16	08:46 09:24-09:46/22 09:18-09:23/5
	21:49	20:57	19:48	18:42	16:51	16:40 15:53-15:57/4
22	05:55	06:41	07:30	08:19	08:12 08:43-08:58/15	08:47 09:25-09:47/22 09:19-09:24/5
	21:48	20:54	19:46	18:40	16:50	16:40 15:53-15:57/4
23	05:56	06:43	07:32	08:21	08:14 08:44-08:58/14	08:47 09:26-09:47/21 09:19-09:24/5
	21:46	20:52	19:43	18:38	16:49	16:41 15:54-15:58/4
24	05:58	06:44	07:33	08:23	08:15 08:46-08:58/12	08:48 09:26-09:47/21 09:19-09:24/5
	21:45	20:50	19:41	18:36	16:48	16:41 15:54-15:57/3
25	05:59	06:46	07:35	07:24	08:17 08:48-08:59/11	08:48 09:27-09:48/21 09:20-09:25/5
	21:44	20:48	19:39	17:34	16:47	16:42 15:55-15:57/2
26	06:00	06:48	07:36	07:26	08:18 08:49-08:58/9	08:49 09:27-09:48/21
	21:42	20:46	19:37	17:32	16:46	16:43 09:20-09:25/5
27	06:02	06:49	07:38	07:28	08:20 08:51-08:59/8	08:49 09:27-09:48/21
	21:41	20:44	19:34	17:30	16:45	16:43 09:21-09:24/3
28	06:03	06:51	07:40	07:29	08:22 08:53-08:59/6	08:49 09:28-09:49/21
	21:40	20:42	19:32	17:28	16:44	16:44 09:23-09:24/1
29	06:05	06:52	07:41	07:31	08:23 08:54-08:59/5	08:49 09:28-09:49/21
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43	07:33	08:24 08:56-08:59/3	08:49 09:29-09:49/20
	21:37	20:37	19:28	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:30-09:50/20
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	0	2	188	662

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:48/28	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 09:00-09:33/33
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:00-09:34/34
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:00-09:35/35
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:14/5	08:30 09:02-09:36/34
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43 08:11-08:16/5	08:31 09:03-09:36/33
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45 08:13-08:17/4	08:33 09:04-09:36/32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:18/3	08:34 09:06-09:37/31
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:18/1	08:35 09:07-09:38/31
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:38/30
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:38/29
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:39/29
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56 16:26-16:30/4	08:39 09:11-09:39/28
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04 08:32-08:34/2	07:57 16:24-16:31/7	08:40 09:12-09:39/27
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06 08:31-08:37/6	07:59 16:23-16:29/6	08:41 09:13-09:40/27
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30	05:47	06:30	07:19	08:07 08:33-08:38/5	08:01 16:23-16:28/5	08:42 09:14-09:40/26
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:39/4	08:02 08:38-08:42/4	08:43 09:15-09:41/26
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57 16:23-16:27/4	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04 08:36-08:44/8	08:44 09:16-09:42/26
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56 16:22-16:24/2	16:39
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:36-08:46/10	08:44 09:16-09:41/25
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55 16:22-16:23/1	16:39
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:46/9	08:45 09:17-09:42/25
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:39-08:47/8	08:46 09:18-09:43/25
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:48/7	08:46 09:18-09:43/25
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:49/6	08:47 09:19-09:44/25
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:55	19:46	18:40	16:50 09:16-09:22/6	16:40
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:49/5	08:47 09:19-09:44/25
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49 09:13-09:24/11	16:41
24	08:35 09:02-09:12/10	07:43 08:06-08:07/1	06:41	06:34	05:44	05:31	05:58	06:45	07:33	08:23	08:15 08:46-08:49/3	08:48 09:19-09:44/25
	17:21 16:48-16:49/1	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48 09:12-09:26/14	16:41
25	08:33 09:02-09:10/8	07:40 08:04-08:07/3	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48 09:20-09:45/25
	17:22 16:49-16:52/3	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47 09:12-09:28/16	16:42
26	08:32 09:06-09:08/2	07:38 08:02-08:07/5	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19 09:11-09:29/18	08:49 09:20-09:46/26
	17:24 16:50-16:54/4	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 16:50-16:55/5	07:36 08:00-08:06/6	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 09:11-09:30/19	08:49 09:20-09:46/26
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30 16:51-16:58/7	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 09:04-09:06/2	08:49 09:20-09:46/26
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44 09:11-09:32/21	16:44
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 09:01-09:08/7	08:49 09:20-09:47/27
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44 09:10-09:32/22	16:45
30	08:27 16:55-16:59/4		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:01-09:33/32	08:49 09:20-09:47/27
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:56		07:35		08:49 09:20-09:48/28
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	611	39	0	0	0	0	0	0	0	19	277	871

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: RIN_WT01 - Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18	05:35	05:34	06:10	06:59	07:46	07:38	08:28
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:50	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:44	08:32
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:57	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:18	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:51	08:36
	16:57	17:49	18:39	20:30	21:19	21:58	22:01	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:47	08:08	07:10	07:01	06:03	05:30	05:42	06:24	07:13	08:01	07:54	08:39
	17:00	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:40
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:41
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:45	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:57	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:21	08:09	08:03	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	20:00	18:52	16:57	16:38
17	08:42	07:57	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:04	21:53	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:08	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:36	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:05	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:49
	17:22	18:18	19:05	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:44	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:05	06:52	07:41	07:31	08:23	08:50
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:05	21:37	20:38	19:28	17:25	16:43	16:46
31	08:26		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:50		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:41/2	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:39/2	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:34/2	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08 07:33-07:35/2	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	10	0	0	0	5	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12 06:40-06:41/1	07:00 07:26-07:32/6	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:32/5	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03 07:29-07:33/4	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:36/2	06:11	05:33	05:37	06:16	07:05 07:30-07:32/2	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:36/4	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:35/5	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:34/6	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04 06:29-06:30/1	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55 07:17-07:18/1	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52 07:15-07:18/3	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50 07:13-07:17/4	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48 07:11-07:14/3	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45	05:30	05:56	06:43	07:31 07:56-08:00/4	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33 07:58-08:01/3	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:15/3	07:35 07:59-08:01/2	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	11	25	1	0	0	9	26	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June
1	08:49	08:24	07:32		07:23	07:45-07:46/1	06:20		05:36
	16:48	17:34	18:25		20:17		21:06		21:50
2	08:49	08:22	07:30		07:21		06:18		05:35
	16:49	17:36	18:26		20:18		21:08		21:51
3	08:49	08:21	07:28		07:19		06:16		05:35
	16:50	17:38	18:28		20:20		21:09		21:53
4	08:49	08:19	07:26		07:16	07:39-07:40/1	06:14		05:34
	16:51	17:40	18:30		20:22		21:11		21:54
5	08:49	08:18	07:23		07:14	07:37-07:38/1	06:13		05:33
	16:52	17:42	18:31		20:23		21:13		21:54
6	08:49	08:16	07:21		07:12		06:11		05:33
	16:53	17:43	18:33		20:25		21:14		21:55
7	08:48	08:14	07:19		07:10		06:09		05:32
	16:55	17:45	18:35		20:27		21:16		21:56
8	08:48	08:13	07:17		07:07		06:07		05:32
	16:56	17:47	18:37		20:28		21:17		21:57
9	08:47	08:11	07:15		07:05		06:06		05:31
	16:57	17:49	18:38		20:30		21:19		21:58
10	08:47	08:09	07:12		07:03		06:04		05:31
	16:59	17:51	18:40		20:32		21:20		21:59
11	08:46	08:07	07:10		07:01		06:02		05:30
	17:00	17:52	18:42		20:33		21:22		21:59
12	08:46	08:06	07:08		06:59		06:01		05:30
	17:01	17:54	18:43		20:35		21:23		22:00
13	08:45	08:04	07:06		06:57	07:19-07:21/2	05:59		05:30
	17:03	17:56	18:45		20:37		21:25		22:01
14	08:44	08:02	07:04		06:54	07:17-07:22/5	05:58		05:30
	17:04	17:58	18:47		20:38		21:27		22:01
15	08:44	08:00	07:01		06:52	07:15-07:22/7	05:56		05:29
	17:06	18:00	18:49		20:40		21:28		22:02
16	08:43	07:58	06:59		06:50	07:13-07:21/8	05:55		05:29
	17:07	18:01	18:50		20:42		21:29		22:02
17	08:42	07:56	06:57		06:48	07:12-07:20/8	05:53		05:29
	17:09	18:03	18:52		20:43		21:31		22:03
18	08:41	07:54	06:55		06:46	07:13-07:18/5	05:52		05:29
	17:11	18:05	18:54		20:45		21:32		22:03
19	08:40	07:52	06:52		06:44		05:50		05:29
	17:12	18:07	18:55		20:46		21:34		22:04
20	08:39	07:50	06:50		06:42		05:49		05:29
	17:14	18:09	18:57		20:48		21:35		22:04
21	08:38	07:48	06:48		06:40		05:48	06:14-06:15/1	05:29
	17:15	18:10	18:59		20:50		21:37		22:04
22	08:37	07:46	06:46	07:08-07:10/2	06:38		05:47	06:13-06:15/2	05:30
	17:17	18:12	19:00		20:51		21:38		22:04
23	08:36	07:44	06:43	07:06-07:10/4	06:36	06:59-07:01/2	05:45	06:12-06:14/2	05:30
	17:19	18:14	19:02		20:53		21:39		22:05
24	08:35	07:42	06:41	07:03-07:09/6	06:34	06:57-07:00/3	05:44	06:11-06:13/2	05:30
	17:20	18:16	19:04		20:55		21:41		22:05
25	08:33	07:40	06:39	07:01-07:08/7	06:32	06:55-07:00/5	05:43		05:30
	17:22	18:17	19:05		20:56		21:42		22:05
26	08:32	07:38	06:37	07:01-07:06/5	06:30	06:53-06:59/6	05:42		05:31
	17:24	18:19	19:07		20:58		21:43		22:05
27	08:31	07:36	06:34		06:28	06:53-06:57/4	05:41		05:31
	17:26	18:21	19:09		21:00		21:45		22:05
28	08:30	07:34	06:32		06:26		05:40		05:32
	17:27	18:23	19:10		21:01		21:46		22:05
29	08:28		07:30		06:24		05:39		05:32
	17:29		20:12		21:03		21:47		22:05
30	08:27		07:28		06:22		05:38		05:33
	17:31		20:14		21:04		21:48		22:04
31	08:25		07:25				05:37		
	17:33		20:15				21:49		
Potential sun hours	262	279	367		415		482		495
Sum of minutes with flicker	0	0	24		58		7		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10		06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12		07:00		07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02		07:49	07:42	08:30
	22:03		21:29		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03		07:51	07:43	08:31
	22:03		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05		07:52	07:45	08:33
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06	07:32-07:33/1	07:54	07:47	08:34
	22:02		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08	07:33-07:34/1	07:56	07:49	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11		07:59	07:52	08:37
	22:00		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:39/1	08:01	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14		08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16		08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45		06:29		07:17		08:06	07:59	08:41
	21:56		21:10		20:04		18:57	17:00	16:38
15	05:46		06:30		07:19		08:07	08:01	08:42
	21:55		21:09		20:02		18:54	16:58	16:38
16	05:47		06:32	07:00-07:05/5	07:20		08:09	08:02	08:43
	21:54		21:07		19:59		18:52	16:57	16:38
17	05:48		06:33	07:00-07:05/5	07:22	07:50-07:54/4	08:11	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50		06:35	07:02-07:07/5	07:24	07:48-07:55/7	08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36	07:03-07:06/3	07:25	07:50-07:56/6	08:14	08:07	08:45
	21:51		21:01		19:52		18:46	16:53	16:39
20	05:52	06:21-06:23/2	06:38	07:05-07:06/1	07:27	07:52-07:57/5	08:16	08:09	08:46
	21:50		20:59		19:50		18:44	16:52	16:39
21	05:53	06:23-06:25/2	06:40		07:28	07:53-07:56/3	08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55	06:24-06:26/2	06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56	06:25-06:26/1	06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46	07:16-07:21/5	07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47	07:14-07:23/9	07:36		07:26	08:19	08:49
	21:42		20:46		19:37		17:32	16:46	16:42
27	06:02		06:49	07:15-07:23/8	07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51	07:17-07:23/6	07:39		07:29	08:22	08:49
	21:40		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52	07:18-07:23/5	07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54	07:20-07:22/2	07:43		07:33	08:24	08:49
	21:37		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:23		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	9		54		28		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 08:50-08:53/3	07:32	07:23	06:20 06:44-06:47/3	05:36
	16:48	17:35	18:25	20:17	21:06 06:53-07:23/30	21:50
2	08:49	08:22 08:48-08:52/4	07:30	07:21	06:18 06:42-06:46/4	05:35
	16:49	17:36	18:26	20:19	21:08 06:53-07:22/29	21:51
3	08:49	08:21 08:46-08:51/5	07:28	07:19	06:16 06:41-06:46/5	05:35
	16:50	17:38	18:28	20:20	21:09 06:53-07:22/29	21:52
4	08:49	08:19 08:45-08:50/5	07:26	07:16	06:14 06:39-06:44/5	05:34
	16:51	17:40	18:30	20:22	21:11 06:53-07:22/29	21:53
5	08:49	08:18 08:43-08:49/6	07:23	07:14	06:13 06:53-07:21/28	05:33
	16:52	17:42	18:32	20:23	21:13	21:54
6	08:49	08:16 08:41-08:47/6	07:21	07:12	06:11 06:53-07:20/27	05:33
	16:54	17:43	18:33	20:25	21:14	21:55
7	08:48 09:18-09:19/1	08:14 08:39-08:47/8	07:19	07:10	06:09 06:54-07:20/26	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13 08:38-08:48/10	07:17	07:08	06:07 06:32-06:33/1	05:32
	16:56	17:47	18:37	20:28	21:17 06:55-07:19/24	21:57
9	08:47 09:17-09:21/4	08:11 08:36-08:48/12	07:15	07:05 07:28-07:29/1	06:06 06:31-06:34/3	05:31
	16:57	17:49	18:38	20:30	21:19 06:56-07:18/22	21:58
10	08:47 09:16-09:21/5	08:09 08:34-08:48/14	07:13	07:03	06:04 06:29-06:34/5	05:31
	16:59	17:51	18:40	20:32	21:20 06:57-07:17/20	21:59
11	08:46 09:15-09:22/7	08:07 08:32-08:47/15	07:10	07:01	06:02 06:28-06:36/8	05:30
	17:00	17:53	18:42	20:33	21:22 06:58-07:16/18	21:59
12	08:46 09:15-09:23/8	08:06 08:33-08:46/13	07:08	06:59	06:01 06:26-06:36/10	05:30
	17:02	17:54	18:44	20:35	21:23 06:59-07:14/15	22:00
13	08:45 09:14-09:24/10	08:04 08:34-08:45/11	07:06 07:28-07:29/1	06:57	05:59 06:25-06:37/12	05:30
	17:03	17:56	18:45	20:37	21:25 07:02-07:12/10	22:01
14	08:44 09:13-09:24/11	08:02 08:35-08:43/8	07:04 07:26-07:30/4	06:54	05:58 06:23-06:36/13	05:30
	17:04	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:01 07:24-07:31/7	06:52	05:56 06:22-06:37/15	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:25/14	07:58	06:59 07:22-07:32/10	06:50	05:55 06:21-06:37/16	05:29
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56	06:57 07:19-07:31/12	06:48	05:53 06:19-06:36/17	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54	06:55 07:17-07:31/14	06:46	05:52 06:19-06:36/17	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:25/15	07:52	06:52 07:15-07:31/16	06:44	05:51 06:19-06:36/17	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:11-09:25/14	07:50	06:50 07:16-07:30/14	06:42 07:08-07:13/5	05:49 06:20-06:36/16	05:29
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:11-09:24/13	07:49	06:48 07:16-07:27/11	06:40 07:04-07:17/13	05:48 06:19-06:35/16	05:30
	17:16	18:10	18:59	20:50	21:37	22:04
22	08:37 09:12-09:24/12	07:46	06:46 07:18-07:25/7	06:38 07:01-07:19/18	05:47 06:20-06:35/15	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:14-09:23/9	07:44	06:43 07:06-07:08/2	06:36 06:59-07:20/21	05:45 06:21-06:34/13	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:15-09:21/6	07:42	06:41 07:04-07:07/3	06:34 06:58-07:21/23	05:44 06:22-06:33/11	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40	06:39 07:01-07:05/4	06:32 06:56-07:22/26	05:43 06:23-06:32/9	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38	06:37	06:30 06:55-07:22/27	05:42 06:25-06:30/5	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36	06:34	06:28 06:54-07:22/28	05:41	05:31
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32	06:26 06:54-07:22/28	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24 06:54-07:23/29	05:39	05:32
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28 07:50-07:51/1	06:22 06:46-06:47/1	05:38	05:33
	17:31		20:14	21:04 06:54-07:23/29	21:48	22:04
31	08:25 08:51-08:52/1		07:25 07:48-07:49/1		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	176	120	107	249	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:37-06:46/9	06:57	07:44	07:36 08:04-08:17/13	08:26 08:57-09:04/7
	22:04	21:33 07:09-07:25/16	20:33	19:25	17:21	16:42
2	05:34	06:10 06:39-06:46/7	06:59	07:46	07:38 08:06-08:17/11	08:27 08:59-09:05/6
	22:04	21:32 07:07-07:26/19	20:31	19:23	17:19	16:41
3	05:35	06:12 06:40-06:44/4	07:00 07:26-07:27/1	07:48	07:40 08:07-08:16/9	08:29 09:00-09:04/4
	22:03	21:30 07:07-07:28/21	20:29	19:21	17:17	16:41
4	05:36	06:13 06:41-06:43/2	07:02	07:49	07:42 08:09-08:16/7	08:30 09:02-09:05/3
	22:03	21:29 07:05-07:28/23	20:26	19:19	17:16	16:40
5	05:37	06:15 07:05-07:30/25	07:03	07:51	07:43 08:11-08:17/6	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16 07:04-07:30/26	07:05	07:52	07:45 08:13-08:19/6	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18 07:04-07:31/27	07:06	07:54	07:47 08:15-08:20/5	08:34
	22:01	21:23	20:20	19:12	17:10	16:39
8	05:39	06:19 07:03-07:31/28	07:08	07:56	07:49 08:17-08:22/5	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 06:49-06:54/5	07:10	07:57	07:50 08:19-08:23/4	08:36
	22:00	21:20 07:02-07:31/29	20:15	19:07	17:07	16:38
10	05:41	06:23 06:50-06:55/5	07:11	07:59	07:52 08:21-08:24/3	08:37
	22:00	21:18 07:02-07:31/29	20:13	19:05	17:06	16:38
11	05:42	06:24 06:51-06:55/4	07:13	08:01	07:54 08:23-08:24/1	08:38
	21:59	21:16 07:01-07:31/30	20:11	19:03	17:04	16:38
12	05:43	06:26 06:53-06:55/2	07:14	08:02	07:55	08:39
	21:58	21:14 07:02-07:31/29	20:08	19:01	17:03	16:38
13	05:44	06:27 06:54-06:55/1	07:16 07:41-07:42/1	08:04	07:57	08:40
	21:57	21:12 07:01-07:31/30	20:06	18:59	17:01	16:38
14	05:45	06:29 07:02-07:31/29	07:17	08:06	07:59	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46	06:30 07:01-07:30/29	07:19	08:07	08:01	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47	06:32 07:02-07:30/28	07:20	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:02-07:29/27	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:34-06:41/7	06:35 07:03-07:28/25	07:24 07:49-07:53/4	08:12	08:06 08:49-08:55/6	08:44
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51 06:32-06:42/10	06:37 07:04-07:26/22	07:25 07:50-07:54/4	08:14	08:07 08:48-08:57/9	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:32-06:44/12	06:38 07:05-07:26/21	07:27 07:52-07:55/3	08:16	08:09 08:47-08:59/12	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 06:31-06:45/14	06:40 07:06-07:23/17	07:28 08:05-08:10/5	08:17	08:11 08:47-09:00/13	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:30-06:45/15	06:41 07:09-07:21/12	07:30 08:02-08:12/10	08:19	08:12 08:47-09:01/14	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56 06:30-06:46/16	06:43	07:32 08:00-08:13/13	08:21	08:14 08:46-09:01/15	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:46/17	06:44	07:33 07:59-08:14/15	08:23	08:15 08:46-09:02/16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:29-06:47/18	06:46	07:35 07:59-08:14/15	07:24	08:17 08:48-09:03/15	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:47/18	06:48	07:36 08:01-08:14/13	07:26	08:19 08:49-09:03/14	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:47/17	06:49	07:38 08:03-08:14/11	07:28 08:07-08:10/3	08:20 08:51-09:04/13	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:48/16	06:51	07:39 08:04-08:12/8	07:29 08:04-08:13/9	08:22 08:53-09:04/11	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:47/14	06:52	07:41 08:06-08:12/6	07:31 08:03-08:15/12	08:23 08:54-09:04/10	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:47/13	06:54	07:43 08:07-08:09/2	07:33 08:02-08:16/14	08:24 08:56-09:04/8	08:49
	21:37 07:14-07:20/6	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:47/11	06:55		07:35 08:02-08:17/15		08:49
	21:35 07:11-07:23/12	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	216	581	112	53	226	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:43/23	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06 19:41-20:01/20	21:50
2	08:49 09:20-09:43/23	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08 19:42-19:59/17	21:51
3	08:49 09:27-09:44/17	08:21	07:28	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:26/6	17:38	18:28	20:20	21:09 19:44-19:56/12	21:52
4	08:49 09:27-09:43/16	08:19	07:26	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:26/7	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:26/7	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:26/8	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:26/8	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:40-07:42/2	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:26/9	17:47	18:37	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-07:43/5	07:05 19:51-19:59/8	06:06 06:35-07:06/31	05:31
	16:57 09:19-09:26/7	17:49	18:38	20:30 08:19-09:09/50	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-07:41/6	07:03 19:47-20:03/16	06:04 06:36-07:05/29	05:31
	16:59 09:20-09:25/5	17:51	18:40	20:32 08:20-09:08/48	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-07:41/8	07:01 19:43-20:04/21	06:03 06:38-07:05/27	05:31
	17:00 09:22-09:23/1	17:53	18:42	20:33 08:19-09:06/47	21:22	21:59
12	08:46	08:06	07:08 07:31-07:39/8	06:59 19:41-20:06/25	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44	20:35 08:20-09:05/45	21:23	22:00
13	08:45	08:04	07:06	06:57 19:40-20:07/27	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37 08:21-09:03/42	21:25	22:01
14	08:44	08:02 08:26-08:30/4	07:04	06:54 19:39-20:08/29	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38 08:22-09:02/40	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:50-07:57/7	06:52 19:38-20:09/31	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40 08:23-09:00/37	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:43-08:03/20	06:50 19:37-20:09/32	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42 08:25-08:58/33	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 19:36-20:09/33	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43 08:26-08:55/29	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 19:36-20:10/34	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45 08:28-08:53/25	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 19:35-20:10/35	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47 08:31-08:49/18	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 19:35-20:10/35	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48 08:37-08:43/6	21:35	22:04
21	08:38	07:49 08:14-08:35/21	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50 19:35-20:09/34	21:37	22:04
22	08:37	07:47 08:14-08:35/21	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51 19:35-20:09/34	21:38	22:04
23	08:36	07:44 08:14-08:34/20	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53 19:35-20:09/34	21:39	22:05
24	08:35	07:42 08:15-08:33/18	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55 19:35-20:08/33	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56 19:35-20:07/32	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58 19:35-20:07/32	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00 19:36-20:06/30	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01 19:36-20:04/28	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03 19:37-20:03/26	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05 19:39-20:03/24	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	217	211	767	1581	541	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:49-07:15/26	06:57 19:42-20:03/21	07:44 08:11-08:17/6	07:36	08:26 09:17-09:22/5
	22:04	21:33	20:33 08:19-09:06/47	19:25	17:21	16:42
2	05:34	06:10 06:48-07:16/28	06:59 19:45-20:01/16	07:46 08:11-08:19/8	07:38	08:27 09:17-09:25/8
	22:04	21:32	20:31 08:18-09:06/48	19:23	17:19	16:41 09:03-09:08/5
3	05:35	06:12 06:46-07:16/30	07:00 19:49-19:57/8	07:48 08:12-08:19/7	07:40	08:29 09:16-09:26/10
	22:03	21:30	20:29 08:17-09:07/50	19:21	17:17	16:41 09:02-09:09/7
4	05:36	06:13 06:45-07:15/30	07:02 08:16-09:07/51	07:49 08:14-08:20/6	07:42	08:30 09:16-09:28/12
	22:03	21:29	20:26	19:19	17:16	16:40 09:02-09:11/9
5	05:37	06:15 06:45-07:16/31	07:03 08:15-09:08/53	07:51 08:16-08:20/4	07:43	08:31 09:15-09:28/13
	22:03	21:27	20:24	19:16	17:14	16:40 09:03-09:12/9
6	05:37	06:16 06:44-07:15/31	07:05 08:14-09:08/54	07:52 08:17-08:18/1	07:45	08:33 09:15-09:29/14
	22:02	21:25	20:22	19:14	17:12	16:39 09:04-09:12/8
7	05:38	06:18 06:46-07:16/30	07:06 08:14-09:08/54	07:54	07:47	08:34 09:16-09:31/15
	22:01	21:23	20:20	19:12	17:11	16:39 09:06-09:13/7
8	05:39	06:19 06:47-07:15/28	07:08 08:13-09:08/55	07:56	07:49	08:35 09:15-09:31/16
	22:01	21:22	20:18	19:10	17:09	16:39 09:07-09:14/7
9	05:40	06:21 06:49-07:15/26	07:10 08:13-09:08/55	07:57	07:50	08:36 09:15-09:32/17
	22:00	21:20 19:57-20:01/4	20:15	19:07	17:07	16:38 09:08-09:14/6
10	05:41	06:23 06:50-07:13/23	07:11 07:36-07:37/1	07:59	07:52	08:37 09:09-09:32/23
	22:00	21:18 19:53-20:06/13	20:13 08:12-09:08/56	19:05	17:06	16:38
11	05:42	06:24 06:51-07:12/21	07:13 07:38-07:42/4	08:01	07:54	08:38 09:10-09:33/23
	21:59	21:16 19:50-20:08/18	20:11 08:12-09:08/56	19:03	17:04	16:38
12	05:43	06:26 06:53-07:12/19	07:14 07:39-07:43/4	08:02	07:55	08:39 09:11-09:33/22
	21:58	21:14 19:49-20:10/21	20:09 08:11-09:07/56	19:01	17:03	16:38
13	05:44	06:27 06:54-07:10/16	07:16 07:41-07:44/3	08:04	07:57	08:40 09:12-09:34/22
	21:57	21:12 19:46-20:10/24	20:06 08:12-09:07/55	18:59	17:01	16:38
14	05:45	06:29 06:56-07:08/12	07:17 07:42-07:43/1	08:06 08:55-08:57/2	07:59	08:41 09:13-09:34/21
	21:56	21:10 19:46-20:12/26	20:04 08:11-09:06/55	18:57	17:00	16:38
15	05:46	06:30 06:57-07:08/11	07:19 08:11-09:06/55	08:07 08:51-09:02/11	08:01	08:42 09:14-09:35/21
	21:55	21:09 19:44-20:12/28	20:02	18:55	16:58	16:38
16	05:48	06:32 06:59-07:10/11	07:21 08:11-09:04/53	08:09 08:48-09:03/15	08:02	08:43 09:15-09:36/21
	21:54	21:07 19:43-20:13/30	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:10/10	07:22 08:12-09:04/52	08:11 08:47-09:04/17	08:04	08:44 09:16-09:36/20
	21:53	21:05 19:42-20:13/31	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:11/9	07:24 08:11-09:02/51	08:12 08:46-09:05/19	08:06	08:44 09:16-09:36/20
	21:52	21:03 19:42-20:14/32	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:10/7	07:25 08:12-09:02/50	08:14 08:45-09:06/21	08:07	08:45 09:17-09:37/20
	21:51	21:01 19:40-20:14/34	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:11/6	07:27 08:13-09:01/48	08:16 08:45-09:06/21	08:09	08:46 09:18-09:38/20
	21:50	20:59 19:40-20:14/34	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:10/4	07:28 08:14-08:59/45	08:17 08:44-09:05/21	08:11	08:46 09:18-09:38/20
	21:49	20:57 19:39-20:14/35	19:48	18:42	16:51	16:40
22	05:55 06:59-07:05/6	06:41 07:08-07:09/1	07:30 08:15-08:58/43	08:19 08:45-09:05/20	08:12	08:47 09:19-09:39/20
	21:48	20:54 19:39-20:14/35	19:46	18:40	16:50	16:40
23	05:56 06:56-07:07/11	06:43 19:39-20:13/34	07:32 08:16-08:56/40	08:21 08:47-09:05/18	08:14	08:47 09:19-09:39/20
	21:46	20:52 08:39-08:48/9	19:43 07:56-08:01/5	18:38	16:49	16:41
24	05:58 06:54-07:08/14	06:44 19:39-20:13/34	07:33 08:17-08:54/37	08:23 08:49-09:05/16	08:15	08:48 09:19-09:39/20
	21:45	20:50 08:35-08:54/19	19:41 07:58-08:02/4	18:36	16:48	16:41
25	05:59 06:54-07:10/16	06:46 19:38-20:12/34	07:35 08:18-08:51/33	07:24 07:51-08:04/13	08:17	08:48 09:20-09:40/20
	21:44	20:48 08:31-08:56/25	19:39 07:59-08:02/3	17:34	16:47	16:42
26	06:00 06:53-07:11/18	06:48 19:39-20:12/33	07:36 08:21-08:49/28	07:26 07:52-08:02/10	08:19	08:49 09:20-09:40/20
	21:42	20:46 08:29-08:59/30	19:37 08:01-08:02/1	17:32	16:46	16:43
27	06:02 06:52-07:12/20	06:49 19:39-20:11/32	07:38 08:24-08:46/22	07:28 07:54-08:01/7	08:20	08:49 09:20-09:41/21
	21:41	20:44 08:26-09:00/34	19:34	17:30	16:45	16:43
28	06:03 06:51-07:14/23	06:51 19:39-20:09/30	07:40 08:27-08:41/14	07:29 07:56-07:59/3	08:22	08:49 09:20-09:41/21
	21:40	20:42 08:25-09:02/37	19:32	17:28	16:44	16:44
29	06:05 06:50-07:14/24	06:52 19:40-20:09/29	07:41	07:31	08:23	08:49 09:20-09:41/21
	21:38	20:40 08:23-09:03/40	19:30	17:26	16:43	16:45
30	06:06 06:50-07:14/24	06:54 19:40-20:07/27	07:43	07:33	08:24	08:49 09:20-09:42/22
	21:37	20:37 08:22-09:04/42	19:28	17:25	16:43	16:46
31	06:07 06:50-07:15/25	06:55 19:41-20:05/24		07:35		08:49 09:20-09:42/22
	21:35	20:35 08:20-09:05/45		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	181	1333	1387	246	0	628

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:32-09:56/24 16:48	08:24 17:35	07:32 08:12-08:18/6 18:25	07:23 20:17	06:20 06:44-06:45/1 21:06 06:47-06:53/6	05:36 06:27-06:48/21 21:50
2	08:49 09:33-09:57/24 16:49	08:22 17:36	07:30 18:26	07:21 20:19	06:18 06:42-06:44/2 21:08	05:35 06:28-06:49/21 21:52
3	08:49 09:33-09:58/25 16:50	08:21 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 06:28-06:48/20 21:53
4	08:49 09:33-09:57/24 16:51	08:19 08:57-09:04/7 17:40	07:26 18:30	07:16 20:22	06:14 21:11	05:34 06:29-06:47/18 21:54
5	08:49 09:34-09:58/24 16:52	08:18 08:53-09:08/15 17:42	07:24 18:32	07:14 20:24	06:13 21:13	05:33 06:30-06:47/17 21:55
6	08:49 09:34-09:58/24 16:54	08:16 08:51-09:10/19 17:44	07:21 18:33	07:12 20:25	06:11 06:36-06:38/2 21:14	05:33 06:30-06:46/16 21:55
7	08:48 09:35-09:59/24 16:55	08:14 08:49-09:11/22 17:45	07:19 18:35	07:10 20:27	06:09 06:34-06:37/3 21:16	05:32 06:31-06:47/16 21:56
8	08:48 09:35-09:58/23 16:56	08:13 08:48-09:13/25 17:47	07:17 18:37	07:08 20:28	06:07 06:32-06:36/4 21:17	05:32 06:31-06:46/15 21:57
9	08:47 09:37-09:59/22 16:57	08:11 08:47-09:14/27 17:49	07:15 18:38	07:05 20:30	06:06 06:31-06:43/12 21:19	05:31 06:33-06:45/12 21:58
10	08:47 09:37-09:59/22 16:59	08:09 08:46-09:15/29 17:51	07:13 07:44-07:47/3 18:40	07:03 20:32	06:04 06:29-06:44/15 21:20	05:31 06:34-06:45/11 21:59
11	08:46 09:37-09:59/22 17:00	08:08 08:45-09:16/31 17:53	07:10 07:39-07:52/13 18:42	07:01 07:24-07:25/1 20:33	06:02 06:28-06:46/18 21:22	05:30 06:35-06:45/10 22:00
12	08:46 09:39-09:59/20 17:02	08:06 08:45-09:16/31 17:54	07:08 07:36-07:55/19 18:44	06:59 07:21-07:24/3 20:35	06:01 06:26-06:47/21 21:24	05:30 06:35-06:44/9 22:00
13	08:45 09:39-09:59/20 17:03	08:04 08:44-09:17/33 17:56	07:06 07:34-07:55/21 18:45	06:57 07:19-07:24/5 20:37	05:59 06:25-06:48/23 21:25	05:30 06:36-06:43/7 22:01
14	08:44 09:40-09:59/19 17:04	08:02 08:44-09:17/33 17:58 08:26-08:28/2	07:04 07:32-07:56/24 18:47	06:54 07:17-07:23/6 20:38	05:58 06:25-06:48/23 21:27	05:30 06:38-06:43/5 22:01
15	08:44 09:41-09:58/17 17:06	08:00 08:43-09:17/34 18:00 08:24-08:30/6	07:01 07:31-07:57/26 18:49	06:52 07:15-07:21/6 20:40	05:56 06:25-06:49/24 21:28	05:30 06:39-06:42/3 22:02
16	08:43 09:42-09:58/16 17:08	07:58 08:43-09:17/34 18:02 08:22-08:31/9	06:59 07:30-07:58/28 18:50	06:50 20:42	05:55 06:25-06:50/25 21:30	05:29 22:02
17	08:42 09:44-09:57/13 17:09	07:56 08:43-09:17/34 18:03 08:20-08:31/11	06:57 07:29-07:58/29 18:52	06:48 20:43	05:53 06:24-06:49/25 21:31	05:29 22:03
18	08:41 09:46-09:55/9 17:11	07:54 08:43-09:17/34 18:05 08:18-08:32/14	06:55 07:29-07:58/29 18:54	06:46 20:45	05:52 06:24-06:50/26 21:32	05:29 22:03
19	08:40 09:50-09:53/3 17:12	07:53 08:44-09:16/32 18:07 08:16-08:32/16	06:52 07:28-07:58/30 18:55	06:44 20:47	05:51 06:24-06:50/26 21:34	05:29 22:04
20	08:39 17:14	07:51 08:44-09:16/32 18:09 08:14-08:31/17	06:50 07:28-07:58/30 18:57	06:42 20:48	05:49 06:24-06:51/27 21:35	05:29 22:04
21	08:38 17:16	07:49 08:45-09:15/30 18:11 08:12-08:31/19	06:48 07:28-07:56/28 18:59	06:40 07:03-07:05/2 20:50	05:48 06:23-06:50/27 21:37	05:30 22:04
22	08:37 17:17	07:47 08:45-09:14/29 18:12 08:10-08:30/20	06:46 07:28-07:56/28 19:00	06:38 07:01-07:06/5 20:51	05:47 06:23-06:50/27 21:38	05:30 22:04
23	08:36 17:19	07:45 08:46-09:13/27 18:14 08:08-08:29/21	06:43 07:28-07:55/27 19:02	06:36 06:59-07:06/7 20:53	05:45 06:24-06:50/26 21:39	05:30 22:05
24	08:35 17:21	07:42 08:48-09:11/23 18:16 08:07-08:26/19	06:41 07:28-07:53/25 19:04	06:34 06:57-07:06/9 20:55	05:44 06:24-06:50/26 21:41	05:30 22:05
25	08:33 17:22	07:40 08:49-09:10/21 18:18 08:08-08:25/17	06:39 07:29-07:52/23 19:05	06:32 06:55-07:06/11 20:56	05:43 06:24-06:50/26 21:42	05:31 22:05
26	08:32 17:24	07:38 08:51-09:07/16 18:19 08:08-08:24/16	06:37 07:31-07:50/19 19:07	06:30 06:53-07:05/12 20:58	05:42 06:24-06:50/26 21:43	05:31 22:05
27	08:31 17:26	07:36 08:55-09:04/9 18:21 08:09-08:23/14	06:34 07:32-07:48/16 19:09	06:28 06:51-07:04/13 21:00	05:41 06:25-06:50/25 21:45	05:31 22:05
28	08:30 17:27	07:34 08:10-08:20/10 18:23	06:32 07:34-07:44/10 19:10	06:26 06:50-07:03/13 21:01	05:40 06:25-06:49/24 21:46	05:32 06:41-06:45/4 22:05
29	08:28 17:29	 	07:30 20:12	06:24 06:48-07:02/14 21:03	05:39 06:26-06:50/24 21:47	05:32 06:40-06:46/6 22:05
30	08:27 17:31	 	07:28 20:14	06:22 06:46-06:55/9 21:05	05:38 06:26-06:50/24 21:48	05:33 06:40-06:48/8 22:04
31	08:25 17:33	 	07:25 20:15	 	05:37 06:27-06:49/22 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	375	838	434	116	560	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:24/1 20:33	07:44 08:14-08:34/20 19:25	07:36 08:16-08:44/28 17:21	08:26 09:19-09:41/22 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:17-08:32/15 19:23	07:38 08:17-08:44/27 17:19	08:27 09:20-09:42/22 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:19-08:28/9 19:21	07:40 08:17-08:42/25 17:17	08:29 09:20-09:42/22 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 19:19	07:42 08:19-08:41/22 17:16	08:30 09:20-09:43/23 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 19:16	07:43 08:21-08:39/18 17:14	08:31 09:20-09:44/24 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 19:14	07:45 08:23-08:37/14 17:12	08:33 09:20-09:44/24 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 19:12	07:47 08:27-08:33/6 17:11	08:34 09:21-09:45/24 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 09:21-09:45/24 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 17:07	08:36 09:21-09:46/25 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 09:22-09:46/24 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 09:22-09:46/24 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 19:01	07:56 17:03	08:39 09:22-09:47/25 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:44-08:52/8 18:59	07:57 17:01	08:40 09:23-09:47/24 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:42-08:54/12 18:57	07:59 17:00	08:41 09:23-09:48/25 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 09:25-09:38/13 18:54 08:41-08:56/15	08:01 16:58	08:42 09:24-09:48/24 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 09:22-09:39/17 18:52 08:39-08:56/17	08:02 16:57	08:43 09:25-09:49/24 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:39-08:56/17	08:04 16:56	08:44 09:25-09:50/25 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:39-08:59/20	08:06 16:55	08:45 09:25-09:49/24 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-09:00/20	08:07 16:53	08:45 09:26-09:50/24 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-09:02/20	08:09 16:52	08:46 09:27-09:51/24 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:06-07:11/5 20:57	07:28 08:14-08:41/27 19:48	08:17 09:15-09:46/31 18:42 08:43-09:01/18	08:11 16:51	08:46 09:27-09:51/24 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:08-07:10/2 20:55	07:30 08:13-08:42/29 19:46	08:19 09:14-09:46/32 18:40 08:45-09:02/17	08:12 16:50	08:47 09:28-09:52/24 16:40
23	05:56 06:34-07:00/26 21:46	06:43 20:52	07:32 08:12-08:41/29 19:43	08:21 09:14-09:47/33 18:38 08:47-09:02/15	08:14 09:26-09:28/2 16:49	08:48 09:28-09:52/24 16:41
24	05:58 06:34-07:00/26 21:45	06:44 20:50	07:33 08:12-08:41/29 19:41	08:23 09:14-09:47/33 18:36 08:49-09:02/13	08:15 09:23-09:32/9 16:48	08:48 09:28-09:52/24 16:41
25	05:59 06:34-07:01/27 21:44	06:46 20:48	07:35 08:11-08:40/29 19:39	07:24 08:14-08:47/33 17:34 07:51-08:02/11	08:17 09:22-09:35/13 16:47	08:48 09:29-09:53/24 16:42
26	06:00 06:34-07:00/26 21:42	06:48 20:46	07:36 08:11-08:40/29 19:37	07:26 08:14-08:47/33 17:32 07:53-08:01/8	08:19 09:21-09:36/15 16:46	08:49 09:29-09:53/24 16:43
27	06:02 06:34-07:00/26 21:41	06:49 20:44	07:38 08:12-08:40/28 19:34	07:28 08:13-08:46/33 17:30 07:54-07:59/5	08:20 09:20-09:37/17 16:45	08:49 09:29-09:54/25 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:23/6 20:42	07:40 08:12-08:38/26 19:32	07:29 08:13-08:46/33 17:28 07:56-07:57/1	08:22 09:20-09:39/19 16:44	08:49 09:30-09:54/24 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:24/6 20:40	07:41 08:13-08:38/25 19:30	07:31 08:14-08:46/32 17:26	08:23 09:20-09:39/19 16:43	08:49 09:30-09:55/25 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:25/5 20:38	07:43 08:13-08:36/23 19:28	07:33 08:14-08:46/32 17:24	08:25 09:20-09:41/21 16:43	08:49 09:31-09:55/24 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:24/3 20:35		07:35 08:15-08:45/30 17:23		08:49 09:31-09:56/25 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	195	390	751	255	744

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:08-10:30/22	08:24 09:00-09:29/29	07:32	07:23 07:48-07:54/6	06:20	05:36 21:09-21:19/10
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 10:09-10:30/21	08:22 09:00-09:29/29	07:30	07:21 07:51-08:00/9	06:18	05:36 21:08-21:19/11
	16:49	17:36	18:26	20:19 07:43-07:46/3	21:08	21:52
3	08:49 10:10-10:30/20	08:21 08:59-09:29/30	07:28	07:19 07:41-08:03/22	06:16	05:35 21:08-21:21/13
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:10-10:29/19	08:19 09:00-09:30/30	07:26	07:16 07:39-08:06/27	06:15	05:34 21:07-21:21/14
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:12-10:30/18	08:18 09:00-09:30/30	07:24	07:14 07:37-08:07/30	06:13	05:33 21:07-21:23/16
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 10:12-10:29/17	08:16 09:00-09:30/30	07:21	07:12 07:34-08:07/33	06:11	05:33 21:07-21:23/16
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 10:14-10:28/14	08:14 09:00-09:30/30	07:19	07:10 07:32-08:08/36	06:09 06:34-06:35/1	05:32 06:01-06:02/1
	16:55	17:45	18:35	20:27	21:16	21:56 21:07-21:24/17
8	08:48 10:15-10:27/12	08:13 09:01-09:30/29	07:17	07:08 07:32-08:09/37	06:08 06:32-06:33/1	05:32 06:01-06:03/2
	16:56	17:47	18:37	20:28	21:17	21:57 21:06-21:24/18
9	08:47 10:18-10:26/8	08:11 09:01-09:30/29	07:15	07:05 07:33-08:09/36	06:06	05:31 06:00-06:03/3
	16:57	17:49	18:38	20:30 07:28-07:30/2	21:19	21:58 21:07-21:26/19
10	08:47	08:09 09:02-09:29/27	07:13	07:03 07:34-08:09/35	06:04	05:31 06:00-06:04/4
	16:59	17:51	18:40	20:32 07:26-07:31/5	21:20	21:59 21:07-21:27/20
11	08:46	08:08 09:02-09:28/26	07:10	07:01 07:37-08:09/32	06:03	05:30 06:00-06:04/4
	17:00	17:53	18:42	20:33 07:24-07:31/7	21:22	22:00 21:06-21:27/21
12	08:46	08:06 09:03-09:27/24	07:08	06:59 07:35-08:08/33	06:01	05:30 05:59-06:04/5
	17:02	17:54	18:44	20:35 07:21-07:30/9	21:24	22:00 21:06-21:27/21
13	08:45	08:04 09:04-09:25/21	07:06	06:57 07:35-08:08/33	05:59	05:30 05:59-06:05/6
	17:03	17:56	18:45	20:37 07:19-07:29/10	21:25	22:01 21:07-21:28/21
14	08:44	08:02 09:06-09:24/18	07:04	06:55 07:35-08:08/33	05:58	05:30 05:59-06:05/6
	17:05	17:58	18:47	20:38 07:17-07:28/11	21:27	22:01 21:07-21:29/22
15	08:44	08:00 09:08-09:21/13	07:01	06:52 07:35-08:07/32	05:56	05:30 05:59-06:05/6
	17:06	18:00	18:49	20:40 07:18-07:26/8	21:28	22:02 21:07-21:29/22
16	08:43	07:58 09:12-09:17/5	06:59	06:50 07:35-08:07/32	05:55	05:29 05:59-06:06/7
	17:08	18:02	18:50	20:42	21:30	22:02 21:07-21:30/23
17	08:42 09:10-09:12/2	07:56	06:57	06:48 07:36-08:06/30	05:53	05:29 05:59-06:06/7
	17:09	18:03	18:52	20:43	21:31	22:03 21:07-21:30/23
18	08:41 09:09-09:13/4	07:54	06:55	06:46 07:36-08:05/29	05:52	05:29 05:59-06:06/7
	17:11	18:05	18:54	20:45	21:32	22:03 21:07-21:30/23
19	08:40 09:08-09:14/6	07:53	06:52	06:44 07:07-07:09/2	05:51	05:29 05:59-06:06/7
	17:12	18:07	18:55	20:47 07:37-08:04/27	21:34	22:04 21:08-21:30/22
20	08:39 09:07-09:15/8	07:51	06:50	06:42 07:05-07:08/3	05:49	05:29 05:59-06:07/8
	17:14	18:09	18:57	20:48 07:38-08:02/24	21:35	22:04 21:08-21:30/22
21	08:38 09:05-09:15/10	07:49	06:48	06:40 07:03-07:06/3	05:48	05:30 05:59-06:07/8
	17:16	18:11	18:59	20:50 07:39-08:00/21	21:37	22:04 21:08-21:30/22
22	08:37 09:04-09:16/12	07:47	06:46	06:38 07:01-07:03/2	05:47	05:30 06:00-06:08/8
	17:17	18:12	19:00	20:51 07:40-07:58/18	21:38	22:04 21:08-21:30/22
23	08:36 09:03-09:17/14	07:45	06:43	06:36 06:59-07:03/4	05:45	05:30 06:00-06:07/7
	17:19	18:14	19:02	20:53 07:43-07:55/12	21:39	22:05 21:09-21:31/22
24	08:35 09:02-09:18/16	07:42	06:41	06:34 06:57-07:02/5	05:44	05:30 06:00-06:07/7
	17:21	18:16	19:04	20:55 07:48-07:49/1	21:41	22:05 21:08-21:31/23
25	08:33 09:00-09:21/21	07:40	06:39	06:32 06:55-07:02/7	05:43	05:31 06:01-06:08/7
	17:22	18:18	19:05	20:56	21:42	22:05 21:08-21:31/23
26	08:32 08:59-09:23/24	07:38	06:37	06:30 06:53-07:01/8	05:42	05:31 06:01-06:08/7
	17:24	18:19	19:07	20:58	21:43	22:05 21:09-21:32/23
27	08:31 08:57-09:24/27	07:36	06:34	06:28 06:51-07:00/9	05:41	05:31 06:02-06:09/7
	17:26	18:21	19:09	21:00	21:45	22:05 21:09-21:31/22
28	08:30 08:57-09:25/28	07:34	06:32 06:55-06:58/3	06:26 06:51-07:00/9	05:40	05:32 06:02-06:08/6
	17:27	18:23	19:10	21:01	21:46	22:05 21:10-21:32/22
29	08:28 08:57-09:26/29		07:30 07:52-07:57/5	06:24 06:53-06:58/5	05:39	05:32 06:03-06:09/6
	17:29		20:12	21:03	21:47	22:05 21:10-21:31/21
30	08:27 08:58-09:27/29		07:28 07:50-07:56/6	06:22	05:38 21:12-21:17/5	05:33 06:03-06:08/5
	17:31		20:14	21:05	21:48	22:04 21:10-21:32/22
31	08:25 08:58-09:28/30		07:25 07:48-07:56/8		05:37 21:10-21:18/8	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	411	400	22	740	15	737

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26
	22:04 21:10-21:31/21	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27
	22:04 21:11-21:31/20	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 10:01-10:09/8
	22:03 21:12-21:31/19	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 10:01-10:12/11
	22:03 21:12-21:31/19	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15 06:43-06:44/1	07:03 07:29-08:05/36	07:51	07:43 08:29-09:00/31	08:31 09:59-10:13/14
	22:03 21:12-21:30/18	21:27	20:24	19:16	17:14	16:40
6	05:37 21:13-21:30/17	06:16 06:44-06:45/1	07:05 07:30-08:03/33	07:52	07:45 08:30-09:00/30	08:33 09:59-10:15/16
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:14-21:29/15	06:18	07:06 07:32-08:02/30	07:54	07:47 08:30-09:00/30	08:34 09:59-10:17/18
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 21:14-21:29/15	06:19	07:08 07:33-08:00/27	07:56	07:49 08:30-09:00/30	08:35 09:59-10:17/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:15-21:28/13	06:21	07:10 07:35-07:58/23	07:57	07:50 08:31-09:00/29	08:36 09:58-10:18/20
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 21:16-21:28/12	06:23	07:11 07:43-07:54/11	07:59	07:52 08:31-09:00/29	08:37 09:58-10:19/21
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 21:17-21:27/10	06:24	07:13 07:40-07:46/6	08:01	07:54 08:30-09:00/30	08:38 09:58-10:20/22
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 21:18-21:27/9	06:26	07:14 07:39-07:47/8	08:02	07:56 08:29-08:58/29	08:39 09:58-10:20/22
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 21:20-21:26/6	06:27	07:16 07:41-07:48/7	08:04	07:57 08:29-08:58/29	08:40 09:58-10:21/23
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 21:23-21:25/2	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 08:29-08:57/28	08:41 09:59-10:22/23
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30 06:57-07:07/10	07:19 07:44-07:47/3	08:07	08:01 08:30-08:57/27	08:42 09:59-10:23/24
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:45-07:46/1	08:09	08:02 08:32-08:56/24	08:43 09:59-10:24/25
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:08/8	07:22	08:11	08:04 08:34-08:55/21	08:44 10:00-10:24/24
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:08/6	07:24	08:12	08:06 08:36-08:52/16	08:45 10:00-10:24/24
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:08/5	07:25	08:14	08:07 08:37-08:51/14	08:45 10:00-10:25/25
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:09/4	07:27	08:16	08:09 08:39-08:51/12	08:46 10:01-10:26/25
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28	08:17	08:11 08:41-08:51/10	08:46 10:01-10:26/25
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30	08:19	08:12 08:43-08:51/8	08:47 10:02-10:27/25
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14 08:44-08:50/6	08:47 10:02-10:27/25
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33	08:23	08:15 08:46-08:50/4	08:48 10:02-10:27/25
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35	07:24	08:17 08:48-08:50/2	08:48 10:04-10:28/24
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36	07:26 08:41-08:49/8	08:19	08:49 10:04-10:28/24
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38	07:28 08:37-08:51/14	08:20	08:49 10:04-10:29/25
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22	08:49 10:05-10:29/24
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23	08:49 10:05-10:29/24
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25	08:49 10:06-10:29/23
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 10:07-10:29/22
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	212	431	347	114	555	629

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:49	08:24		07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34		18:25		20:17		21:06		21:50	
2	08:49	08:22		07:30		07:21		06:18		05:35	06:04-06:14/10
	16:49	17:36		18:26		20:18		21:08		21:51	
3	08:49	08:21		07:28		07:19		06:16		05:35	06:03-06:14/11
	16:50	17:38		18:28		20:20		21:09		21:52	
4	08:49	08:19		07:26		07:16		06:14		05:34	06:02-06:14/12
	16:51	17:40		18:30		20:22		21:11		21:53	
5	08:49	08:18		07:23	07:46-07:47/1	07:14		06:13		05:33	06:02-06:14/12
	16:52	17:42		18:31		20:23		21:13		21:54	
6	08:49	08:16		07:21	07:44-07:47/3	07:12		06:11		05:33	06:01-06:14/13
	16:53	17:43		18:33		20:25		21:14		21:55	
7	08:48	08:14		07:19	07:42-07:47/5	07:10		06:09		05:32	06:01-06:14/13
	16:55	17:45		18:35		20:27		21:16		21:56	
8	08:48	08:13		07:17	07:40-07:47/7	07:07		06:07		05:32	06:00-06:14/14
	16:56	17:47		18:37		20:28		21:17		21:57	
9	08:47	08:11		07:15	07:37-07:46/9	07:05		06:06		05:31	06:00-06:14/14
	16:57	17:49		18:38		20:30		21:19		21:58	
10	08:47	08:09		07:12	07:35-07:45/10	07:03		06:04		05:31	06:00-06:14/14
	16:59	17:51		18:40		20:32		21:20		21:59	
11	08:46	08:07		07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52		18:42		20:33		21:22		21:59	
12	08:46	08:06		07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54		18:43		20:35		21:23		22:00	
13	08:45	08:04		07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:44	08:02	08:26-08:27/1	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58		18:47		20:38		21:26		22:01	
15	08:44	08:00	08:24-08:27/3	07:01		06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	08:22-08:27/5	06:59		06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01		18:50		20:42		21:29		22:02	
17	08:42	07:56	08:20-08:26/6	06:57		06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03		18:52		20:43		21:31		22:03	
18	08:41	07:54	08:18-08:25/7	06:55		06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05		18:54		20:45		21:32		22:03	
19	08:40	07:52	08:17-08:24/7	06:52	07:15-07:16/1	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07		18:55		20:46		21:34		22:04	
20	08:39	07:50		06:50	07:13-07:16/3	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09		18:57		20:48		21:35		22:04	
21	08:38	07:48		06:48	07:10-07:15/5	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10		18:59		20:50		21:37		22:04	
22	08:37	07:46		06:46	07:08-07:15/7	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12		19:00		20:51		21:38		22:04	
23	08:36	07:44		06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14		19:02		20:53		21:39		22:05	
24	08:35	07:42		06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16		19:04		20:55		21:41		22:05	
25	08:33	07:40		06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18		19:05		20:56		21:42		22:05	
26	08:32	07:38		06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19		19:07		20:58		21:43		22:05	
27	08:31	07:36		06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34		06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29			20:12		21:03		21:47		22:04	
30	08:27			07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31			20:14		21:04		21:48		22:04	
31	08:25			07:25				05:37	06:05-06:13/8		
	17:33			20:15				21:49			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	29		83		23		33		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34	06:04-06:19/15	06:09		06:57		07:44		07:36	08:26
	22:04		21:33		20:33		19:25		17:21	16:42
2	05:34	06:04-06:19/15	06:10		06:58		07:46	08:14-08:22/8	07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35	06:05-06:19/14	06:12		07:00		07:47	08:12-08:23/11	07:40	08:29
	22:03		21:30		20:29		19:21		17:17	16:41
4	05:36	06:06-06:20/14	06:13		07:02		07:49	08:14-08:24/10	07:42	08:30
	22:03		21:29		20:26		19:18		17:15	16:40
5	05:36	06:06-06:19/13	06:15		07:03		07:51	08:16-08:24/8	07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37	06:07-06:20/13	06:16		07:05		07:52	08:17-08:23/6	07:45	08:32
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38	06:08-06:20/12	06:18		07:06		07:54	08:19-08:23/4	07:47	08:34
	22:01		21:23		20:20		19:12		17:10	16:39
8	05:39	06:09-06:21/12	06:19		07:08		07:56	08:21-08:23/2	07:49	08:35
	22:01		21:22		20:17		19:10		17:09	16:39
9	05:40	06:10-06:21/11	06:21		07:09		07:57		07:50	08:36
	22:00		21:20		20:15		19:07		17:07	16:38
10	05:41	06:11-06:21/10	06:22		07:11		07:59		07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42	06:12-06:22/10	06:24		07:13		08:01		07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43	06:13-06:22/9	06:26		07:14		08:02		07:55	08:39
	21:58		21:14		20:08		19:01		17:03	16:38
13	05:44	06:14-06:22/8	06:27		07:16		08:04		07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45	06:15-06:22/7	06:29		07:17		08:06		07:59	08:41
	21:56		21:10		20:04		18:57		17:00	16:38
15	05:46	06:16-06:22/6	06:30		07:19		08:07		08:01	08:42
	21:55		21:08		20:02		18:54		16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09		08:02	08:43
	21:54		21:07		19:59		18:52		16:57	16:38
17	05:49	06:18-06:21/3	06:33		07:22		08:11		08:04	08:44
	21:53		21:05		19:57		18:50		16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:24		08:12		08:06	08:44
	21:52		21:03		19:55		18:48		16:54	16:38
19	05:51		06:36		07:25	07:51-07:58/7	08:14		08:07	08:45
	21:51		21:01		19:52		18:46		16:53	16:39
20	05:52		06:38		07:27	07:52-08:00/8	08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28	07:53-08:00/7	08:17		08:11	08:46
	21:49		20:56		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30	07:55-08:01/6	08:19		08:12	08:47
	21:48		20:54		19:46		18:40		16:50	16:40
23	05:56		06:43	07:09-07:15/6	07:31	07:56-08:00/4	08:21	08:47-08:55/8	08:14	08:47
	21:46		20:52		19:43		18:38		16:49	16:41
24	05:57		06:44	07:11-07:17/6	07:33	07:58-07:59/1	08:22	08:49-08:56/7	08:15	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59		06:46	07:12-07:17/5	07:35		07:24	07:51-07:57/6	08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00		06:47	07:14-07:18/4	07:36		07:26	07:53-07:57/4	08:18	08:49
	21:42		20:46		19:37		17:32		16:46	16:42
27	06:02		06:49	07:15-07:17/2	07:38		07:28	07:54-07:57/3	08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03		06:51		07:39		07:29		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:04		06:52		07:41		07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06		06:54		07:43		07:33		08:24	08:49
	21:37		20:37		19:27		17:24		16:43	16:46
31	06:07		06:55				07:35			08:49
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	178		23		33		77		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:16/1	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:16/4	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50 07:17-07:18/1	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	9	16	0	1	22	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:52-07:04/12	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06 06:44-06:50/6	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:54-07:01/7	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08 06:42-06:48/6	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:47/7	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:40-06:46/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:56/7	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:57/7	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 07:02-07:11/9	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16 06:51-06:57/6	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 07:00-07:13/13	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14 06:53-06:58/5	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-07:14/20	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-07:15/19	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30 06:57-07:15/18	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32 06:59-07:16/17	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33 07:00-07:16/16	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35 07:02-07:16/14	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44 07:07-07:08/1	05:50	05:29 05:59-06:09/10	05:51	06:36 07:03-07:15/12	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42 07:05-07:09/4	05:49	05:29 05:59-06:10/11	05:52	06:38 07:05-07:15/10	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40 07:03-07:09/6	05:48	05:29 05:59-06:10/11	05:54	06:40 07:06-07:14/8	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38 07:01-07:10/9	05:47	05:30 06:00-06:11/11	05:55	06:41 07:08-07:14/6	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36 06:59-07:10/11	05:45	05:30 06:00-06:11/11	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34 06:57-07:10/13	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:09/14	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:09/16	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-07:08/17	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-07:07/18	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-07:07/19	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:51-07:06/15	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05 06:46-06:50/4	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	147	44	230	50	190	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-08:50/2 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:46-08:49/3 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:45-08:50/5 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:43-08:49/6 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:41-08:48/7 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:39-08:47/8 17:45	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:38-08:46/8 17:47	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:36-08:45/9 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:34-08:43/9 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:32-08:41/9 17:53	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 18:50	06:50 07:13-07:14/1 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 18:52	06:48 07:11-07:13/2 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 18:54	06:46 07:09-07:11/2 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 18:55	06:44 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:05-09:28/23 17:17	07:47 08:27-08:33/6 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:06-09:28/22 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:06-09:27/21 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:07-09:27/20 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 09:09-09:27/18 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 09:09-09:25/16 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 09:11-09:25/14 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 09:13-09:22/9 17:29	 	07:30 07:52-08:09/17 20:12	06:24 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 17:31	 	07:28 07:50-08:09/19 20:14	06:22 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 17:33	 	07:25 07:48-08:08/20 20:15	 	05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	321	234	105	82	108	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:34/30	06:09	06:57	07:44	07:36 08:04-08:13/9	08:26 08:57-09:04/7
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34 06:04-06:34/30	06:10	06:59	07:46	07:38 08:06-08:15/9	08:27 08:59-09:05/6
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:34/29	06:12	07:00	07:48	07:40 08:08-08:16/8	08:29 09:00-09:04/4
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:34/28	06:13	07:02	07:49	07:42 08:09-08:17/8	08:30 09:02-09:05/3
	22:03	21:29	20:26	19:19	17:16	16:40
5	05:37 06:06-06:33/27	06:15	07:03 07:29-07:32/3	07:51	07:43 08:11-08:18/7	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:33/26	06:16	07:05 07:30-07:32/2	07:52	07:45 08:13-08:19/6	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:33/25	06:18	07:06 07:32-07:33/1	07:54	07:47 08:15-08:20/5	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:33/24	06:19	07:08 07:45-07:56/11	07:56	07:49 08:17-08:20/3	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:33/23	06:21	07:10 07:43-07:58/15	07:57	07:50 08:19-08:20/1	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:33/22	06:23	07:11 07:36-07:59/23	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:32/20	06:24	07:13 07:38-08:00/22	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:32/19	06:26	07:14 07:39-07:59/20	08:02	07:55	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:31/17	06:27	07:16 07:41-08:00/19	08:04	07:57 08:45-08:54/9	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:30/15	06:29	07:17 07:42-07:59/17	08:06	07:59 08:43-08:57/14	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:29/13	06:30	07:19 07:44-07:59/15	08:07	08:01 08:42-08:58/16	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:17-06:28/11	06:32	07:20 07:45-07:58/13	08:09	08:02 08:42-09:00/18	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:26/8	06:33	07:22 07:47-07:58/11	08:11	08:04 08:41-09:01/20	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:23/4	06:35	07:24 07:48-07:56/8	08:12	08:06 08:40-09:01/21	08:44
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37	07:25 07:50-07:55/5	08:14	08:07 08:40-09:02/22	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-07:53/1	08:16 08:57-09:05/8	08:09 08:40-09:03/23	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 08:54-09:07/13	08:11 08:41-09:03/22	08:46
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:52-09:09/17	08:12 08:43-09:04/21	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:51-09:10/19	08:14 08:44-09:03/19	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:32/3	06:44	07:33	08:23 08:51-09:11/20	08:15 08:46-09:04/18	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:34/6	06:46 07:12-07:14/2	07:35	07:24 07:51-08:11/20	08:17 08:48-09:05/17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:35/6	06:48 07:14-07:16/2	07:36	07:26 07:53-08:11/18	08:19 08:49-09:04/15	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:36/6	06:49 07:15-07:16/1	07:38	07:28 07:54-08:11/17	08:20 08:51-09:05/14	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:37/5	06:51	07:39	07:29 07:56-08:11/15	08:22 08:53-09:05/12	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:37/4	06:52	07:41	07:31 07:58-08:10/12	08:23 08:54-09:05/11	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:37/3	06:54	07:43	07:33 08:00-08:10/10	08:24 08:56-09:05/9	08:49
	21:37	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:38/2	06:55		07:35 08:02-08:11/9		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	406	5	186	178	357	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23 07:45-07:48/3	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21 07:43-07:46/3	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00 07:26-07:28/2	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:28/1	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:31/1	06:07	05:32	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:30/2	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11 07:36-07:39/3	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13 07:38-07:41/3	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14 07:39-07:41/2	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45 06:15-06:19/4	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:29	05:46 06:16-06:20/4	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59 07:22-07:23/1	06:50	05:55	05:29	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57 07:19-07:21/2	06:48	05:53	05:29	05:48 06:18-06:21/3	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:21/2	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:22/1	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44 06:11-06:12/1	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43 06:10-06:12/2	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42 06:09-06:12/3	05:31	06:00	06:47	07:36 08:01-08:03/2	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41 06:08-06:11/3	05:31	06:02	06:49	07:38 08:03-08:05/2	07:28	08:20	08:49
	17:26	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40 06:07-06:11/4	05:32	06:03	06:51	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:10/4	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38 06:07-06:09/2	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25 07:48-07:50/2		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	5	9	19	0	20	0	16	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:09	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17 07:42-07:43/1	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30 07:52-07:53/1	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27 07:50-07:51/1	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	2	3	0	0	0	3	2	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 03:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Ref B WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.314	1.567	876	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:13/9	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51 06:17-06:33/16	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52 06:19-06:33/14	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:15/12	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53 06:19-06:33/14	22:04 06:30-06:33/3	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:15/13	05:36 06:06-06:23/17	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54 06:19-06:32/13	22:03 06:29-06:35/6	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:16/14	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55 06:20-06:32/12	22:03 06:28-06:36/8	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:16/15	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56 06:21-06:31/10	22:02 06:27-06:37/10	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:17/16	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56 06:22-06:31/9	22:02 06:27-06:38/11	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57 06:23-06:29/6	22:01 06:27-06:39/12	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58 06:24-06:29/5	22:00 06:26-06:40/14	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:18/18	05:41 06:11-06:22/11	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00 06:26-06:40/14	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:00-06:19/19	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59 06:26-06:41/15	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:21/8	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58 06:26-06:42/16	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:20/6	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57 06:25-06:42/17	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:30 06:00-06:19/19	05:45 06:15-06:19/4	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56 06:25-06:43/18	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:29/7	05:29 06:00-06:20/20	05:46 06:25-06:43/18	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:31/10	05:29 06:01-06:20/19	05:47 06:25-06:43/18	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:31/12	05:29 06:01-06:20/19	05:49 06:25-06:44/19	06:33	07:22	08:11	08:04	08:44
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18	08:41	07:55	06:55	06:46	05:52 06:18-06:32/14	05:29 06:01-06:20/19	05:50 06:24-06:44/20	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51 06:17-06:33/16	05:29 06:01-06:21/20	05:51 06:24-06:44/20	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:34/18	05:29 06:01-06:21/20	05:52 06:24-06:44/20	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:15-06:33/18	05:30 06:01-06:21/20	05:54 06:25-06:44/19	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47 06:15-06:34/19	05:30 06:02-06:22/20	05:55 06:25-06:44/19	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:15-06:34/19	05:30 06:02-06:22/20	05:56 06:25-06:44/19	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44 06:15-06:34/19	05:30 06:02-06:22/20	05:58 06:26-06:43/17	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43 06:15-06:34/19	05:31 06:03-06:22/19	05:59 06:28-06:43/15	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:15-06:34/19	05:31 06:03-06:22/19	06:00 06:29-06:42/13	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:15-06:34/19	05:31 06:03-06:22/19	06:02 06:30-06:41/11	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:15-06:34/19	05:32 06:03-06:23/20	06:03 06:32-06:41/9	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:07-06:08/1	05:32 06:03-06:22/19	06:05 06:33-06:39/6	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47 06:17-06:34/17	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:11/5	05:33 06:04-06:23/19	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48 06:17-06:34/17	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:12/7		06:07	06:55		07:35		08:50
	17:33		20:15		21:49 06:17-06:34/17		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	296	630	575	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

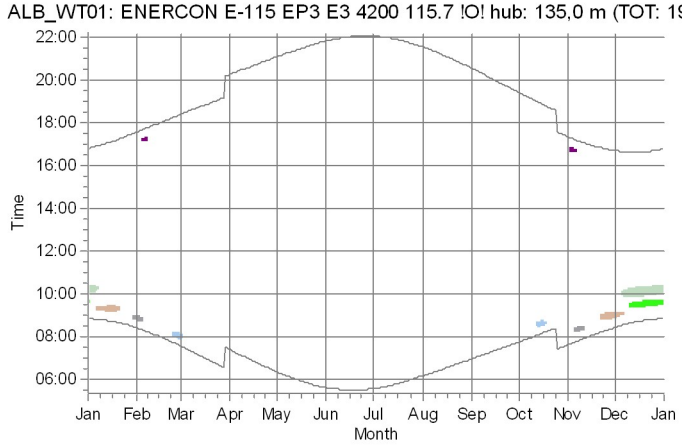
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Calculated:
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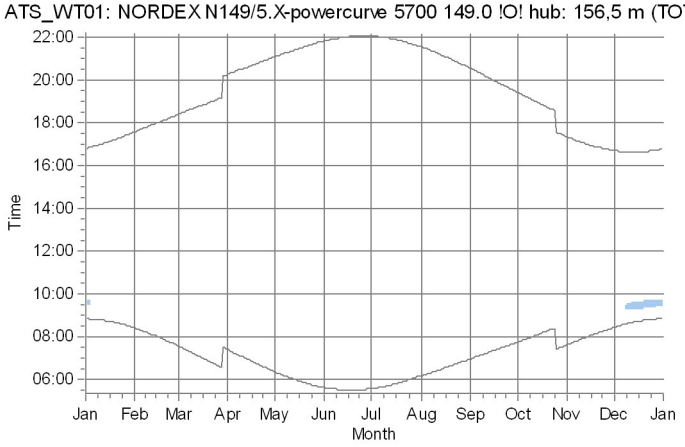
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

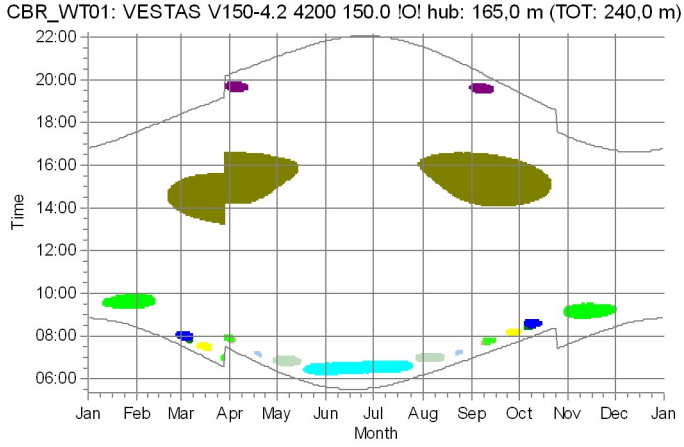
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 1



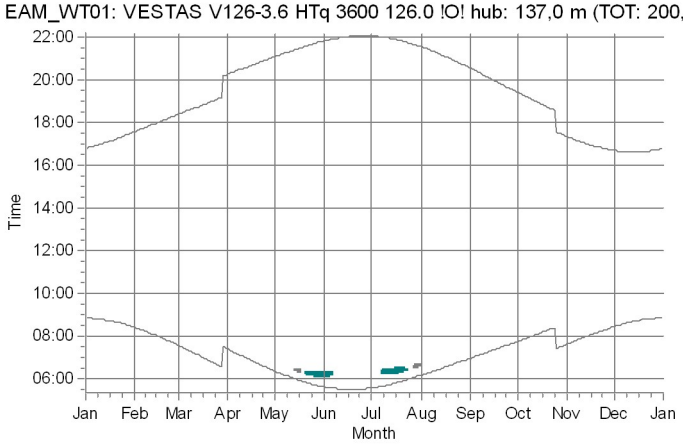
ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0



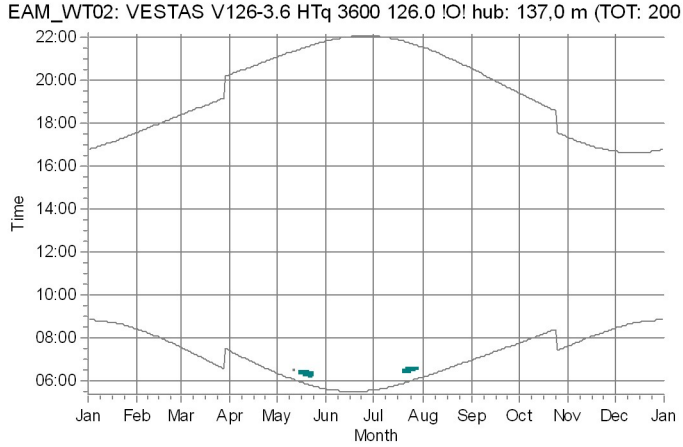
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m)



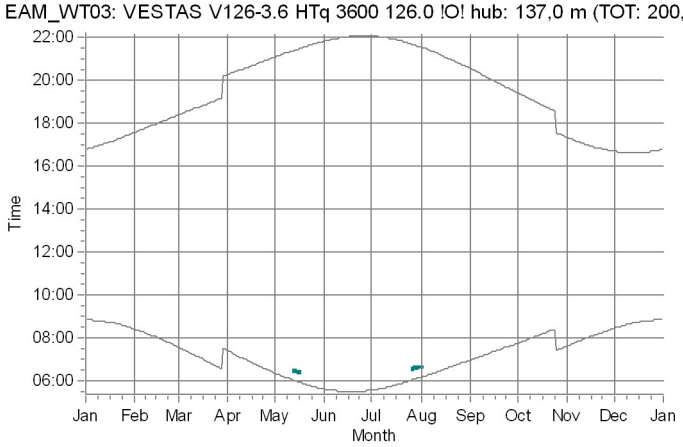
EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (4



EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200



EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (4



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

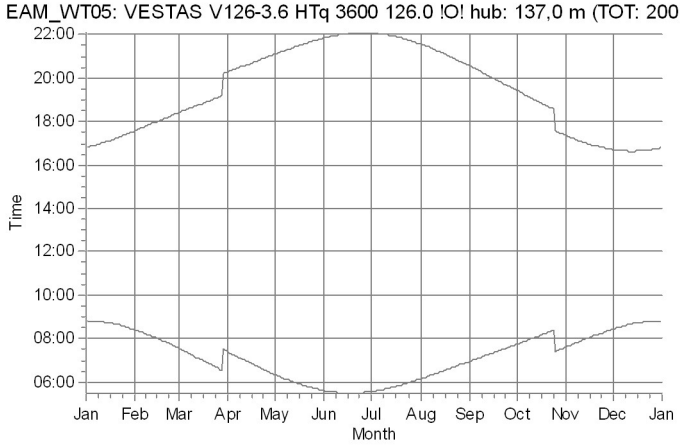
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Calculated:
09/04/2026 03:38/4.1.264

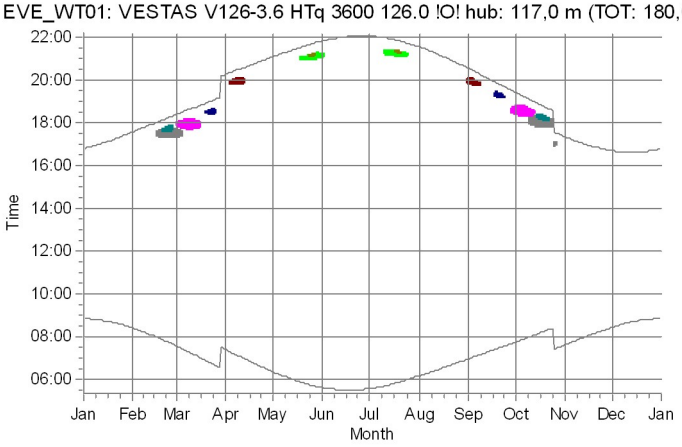
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

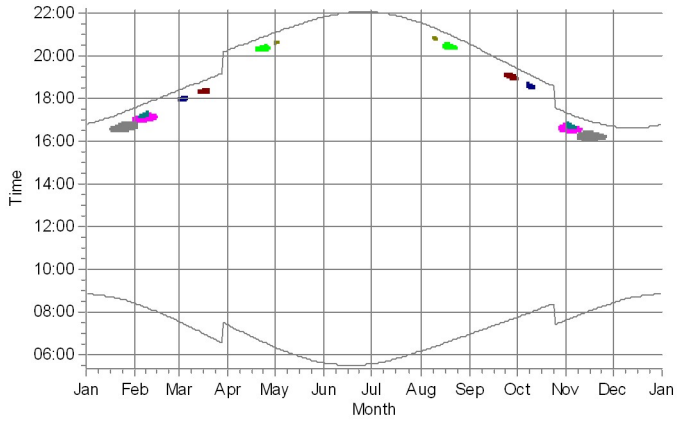
EAM_WT05: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200



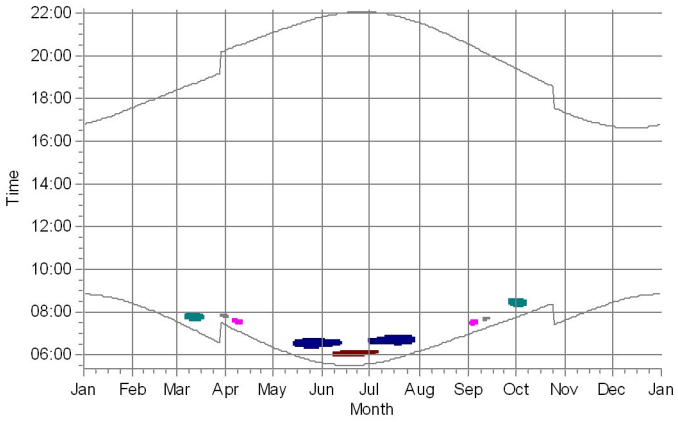
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52



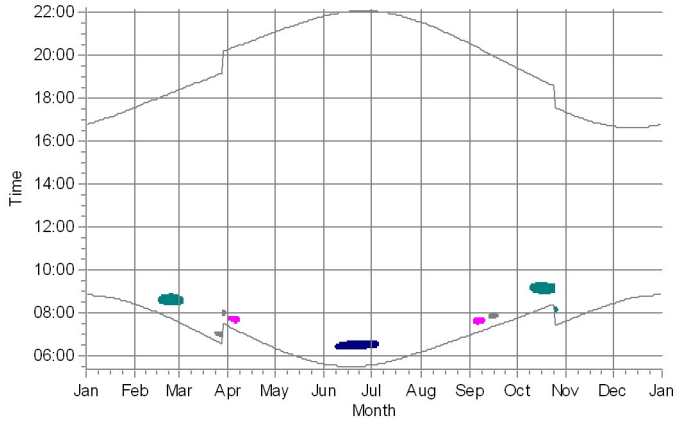
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,



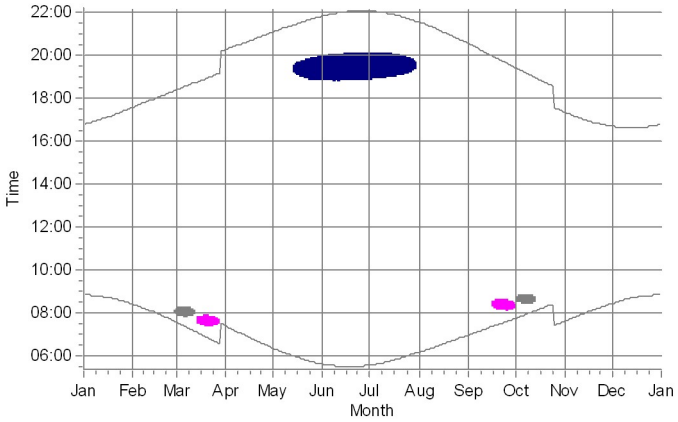
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)



KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)



Shadow receptors

- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent

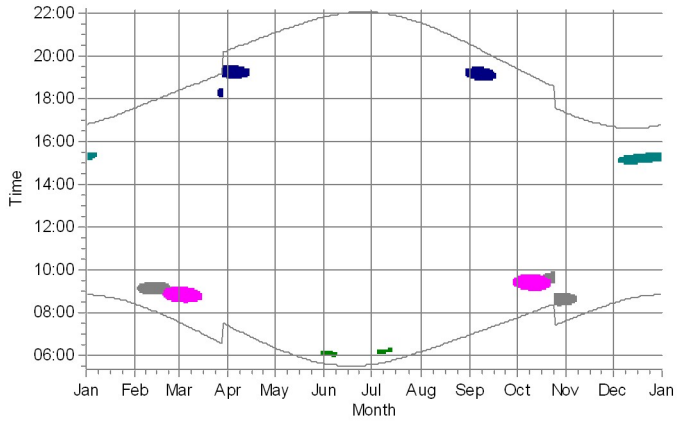
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Calculated:
09/04/2026 03:38/4.1.264

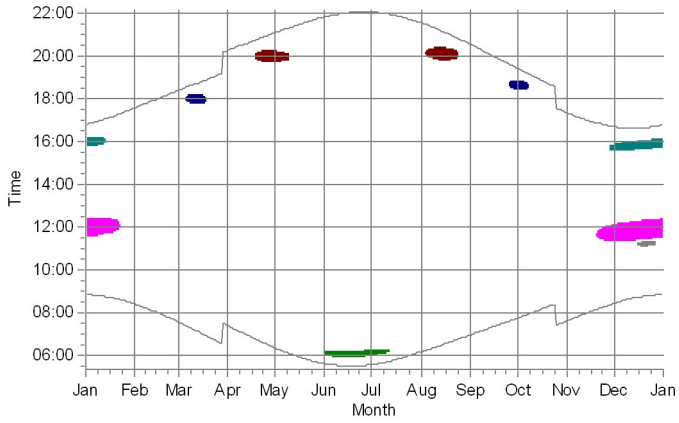
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

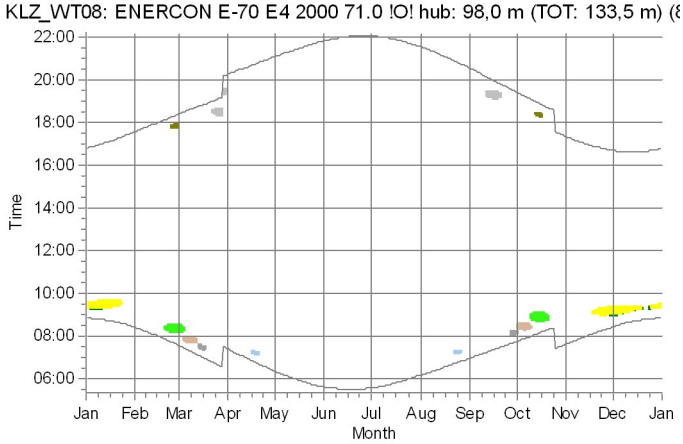
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5



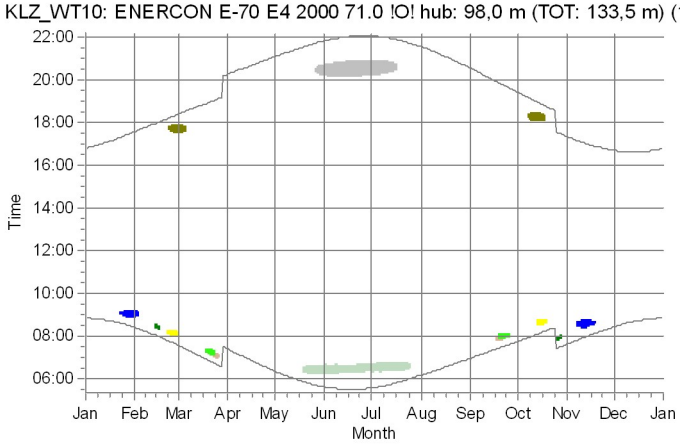
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)



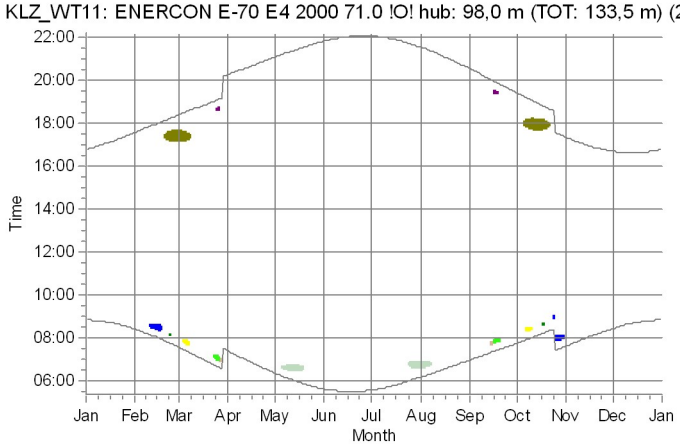
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8



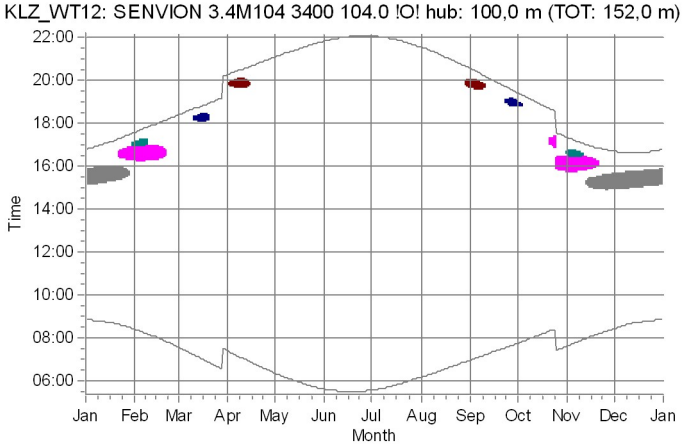
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)



KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2



KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

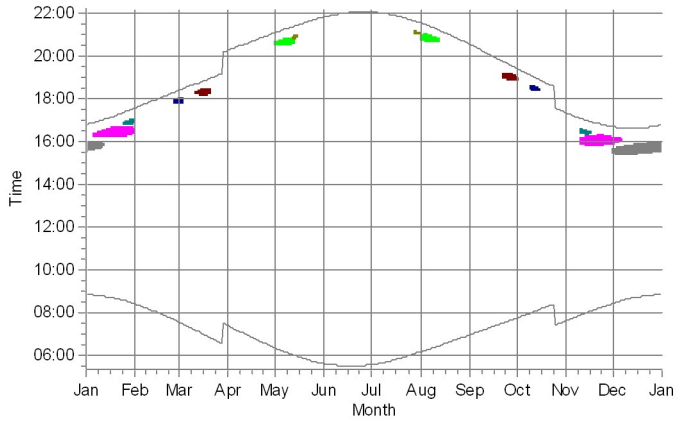
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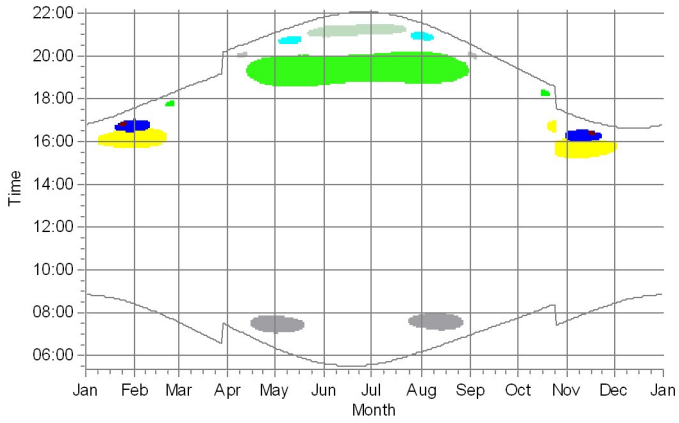
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

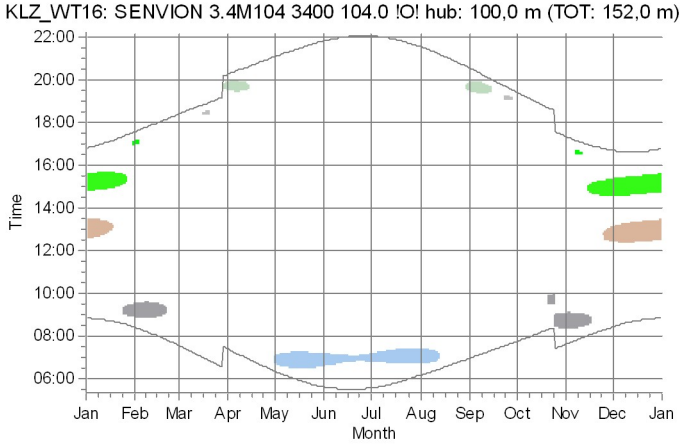
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m)



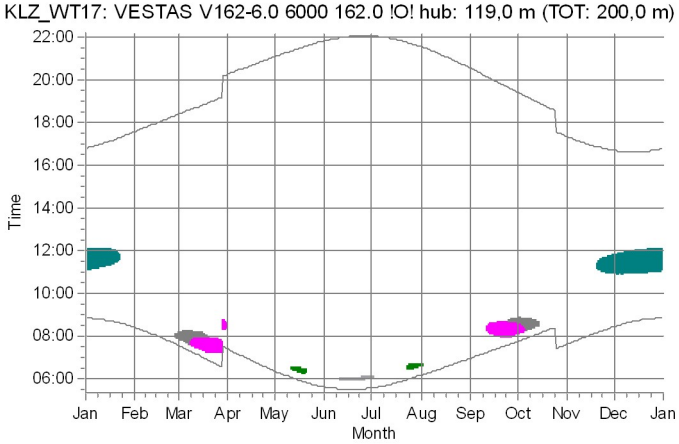
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)



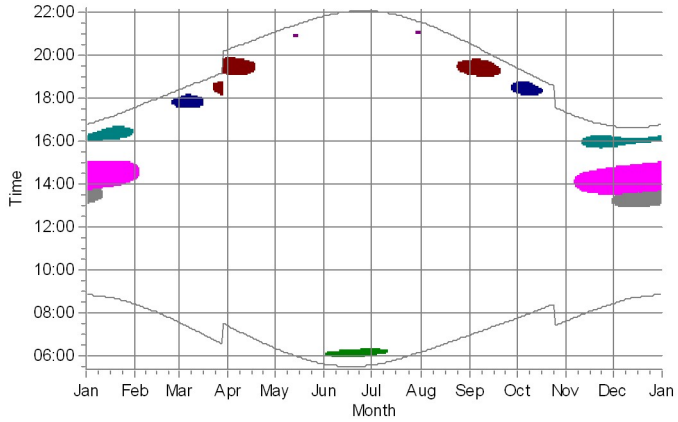
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m)



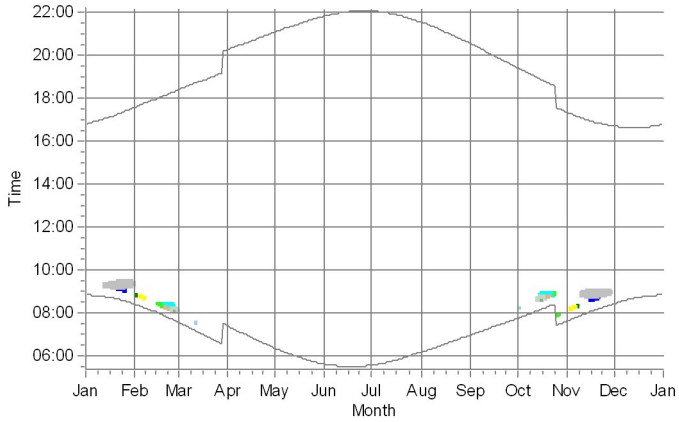
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)



KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m)



MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

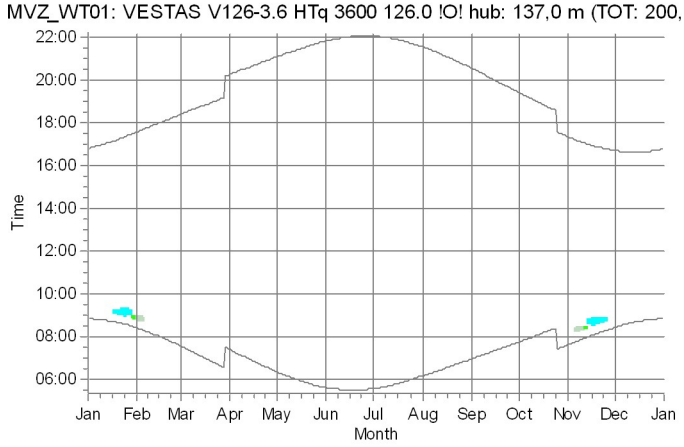
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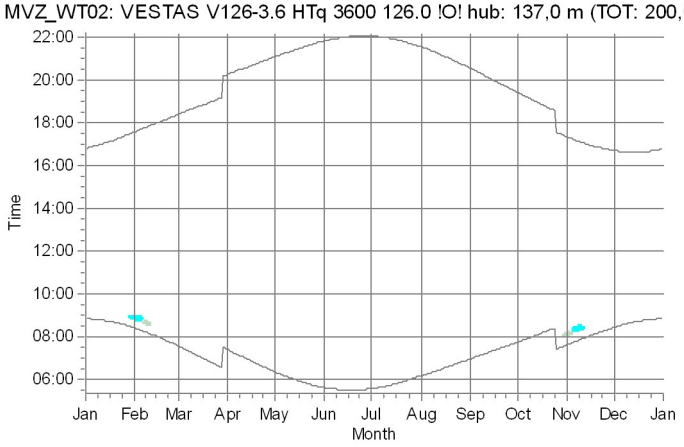
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

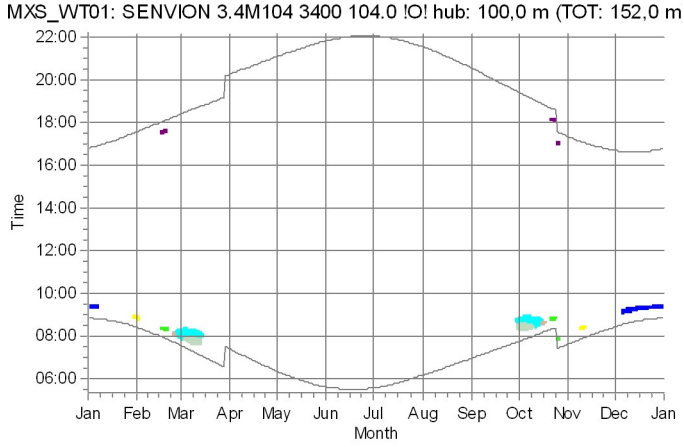
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,



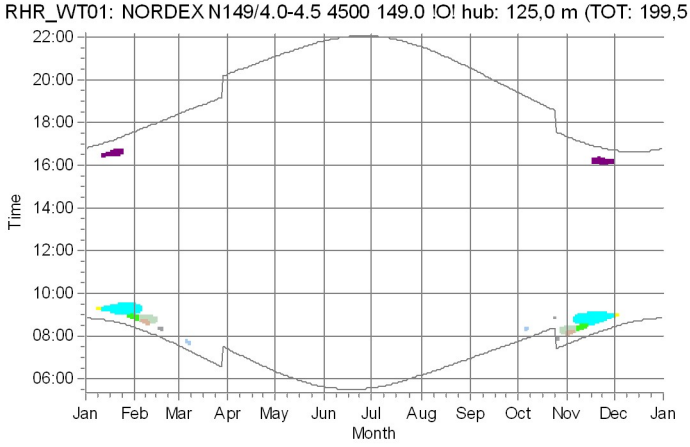
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (4



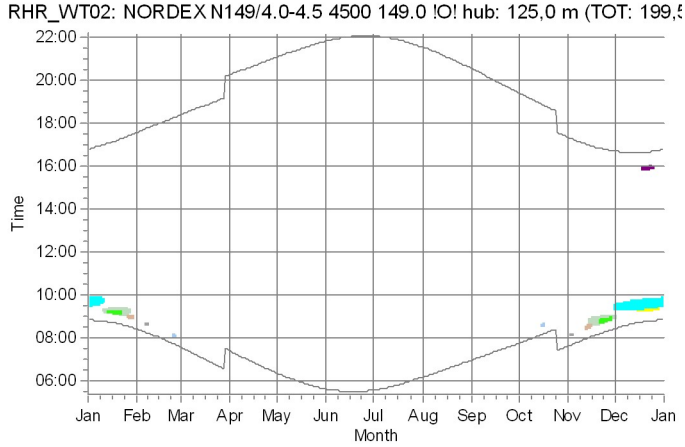
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m



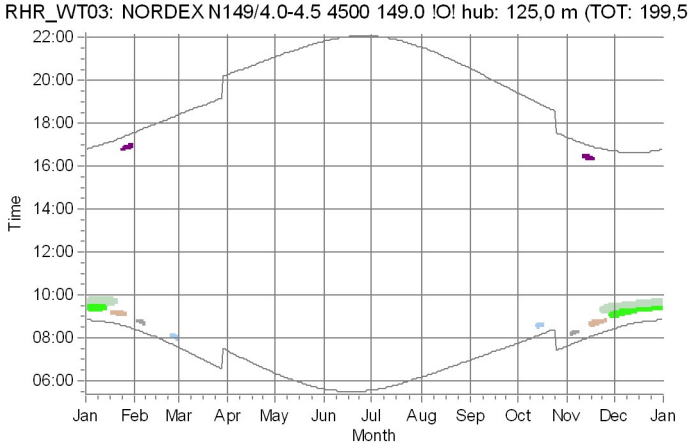
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47



RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5



RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 11: Schuitstraat 1, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

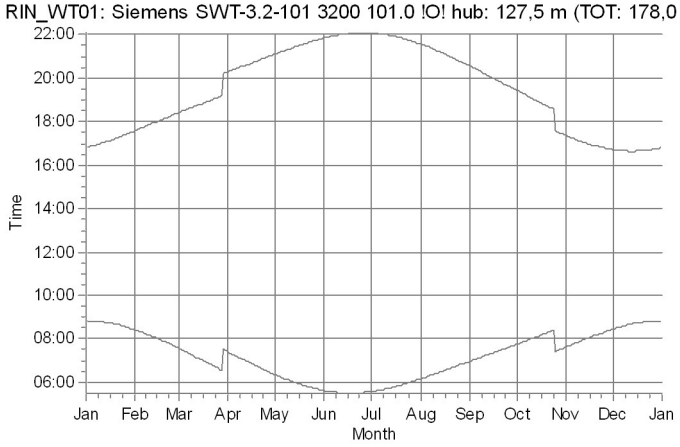
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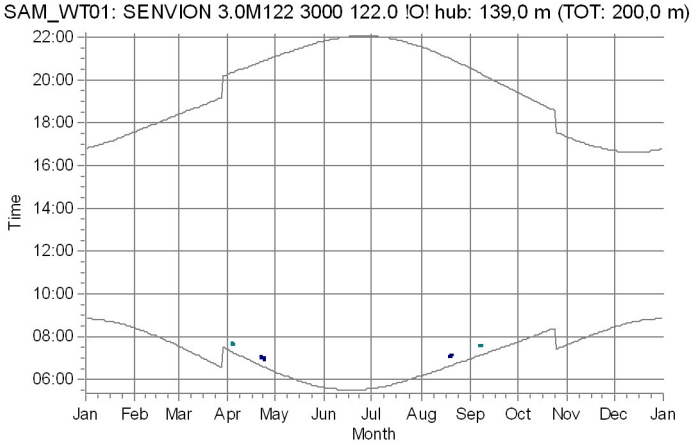
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

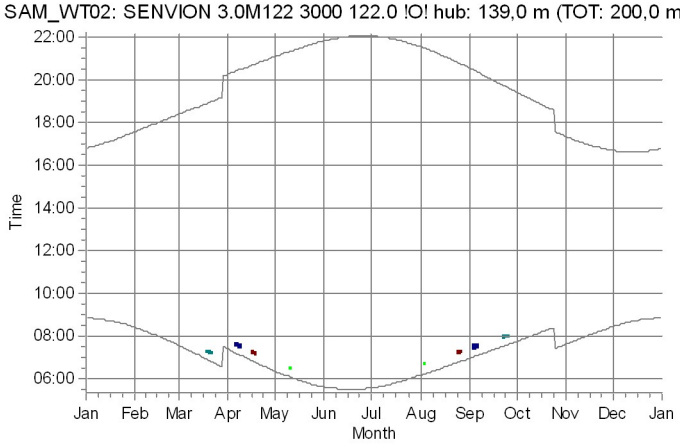
RIN_WT01: Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0



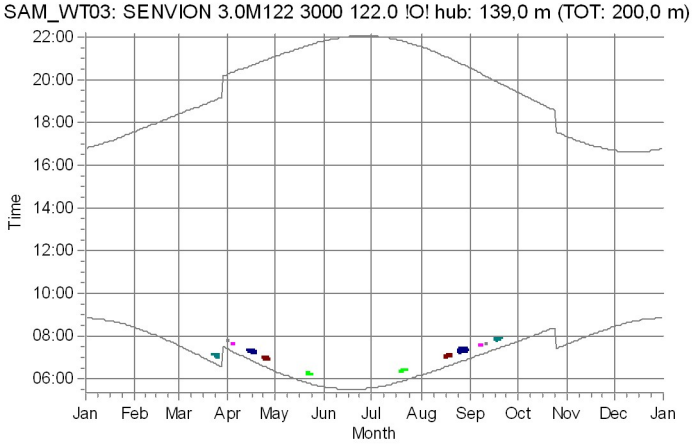
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)



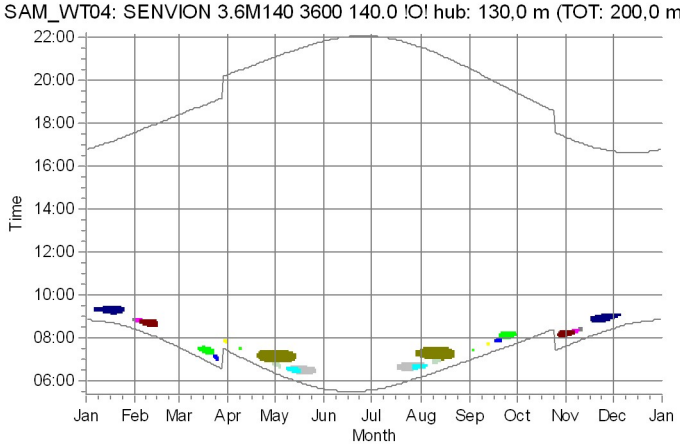
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



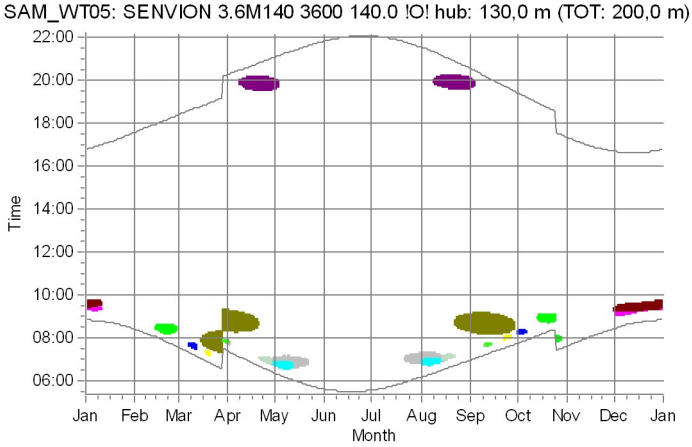
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)



SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

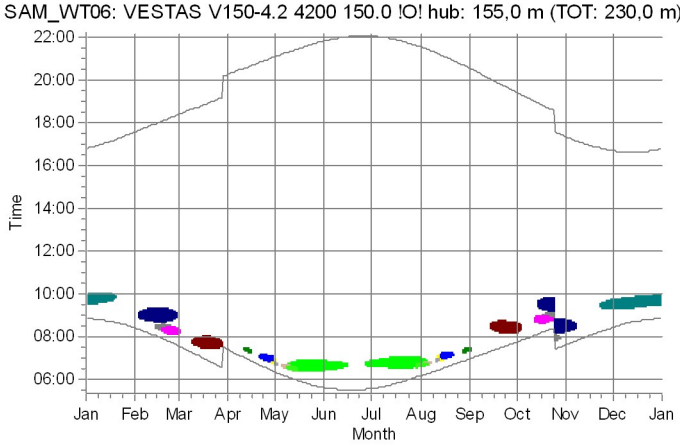
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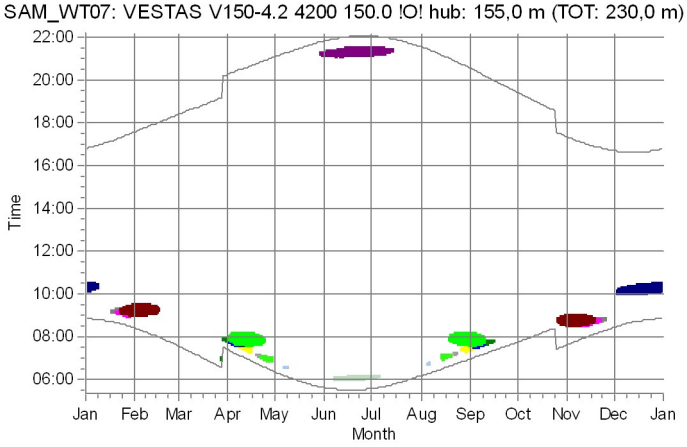
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

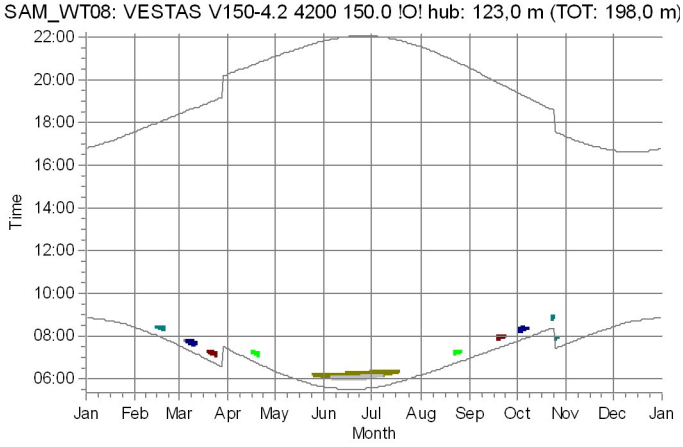
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m)



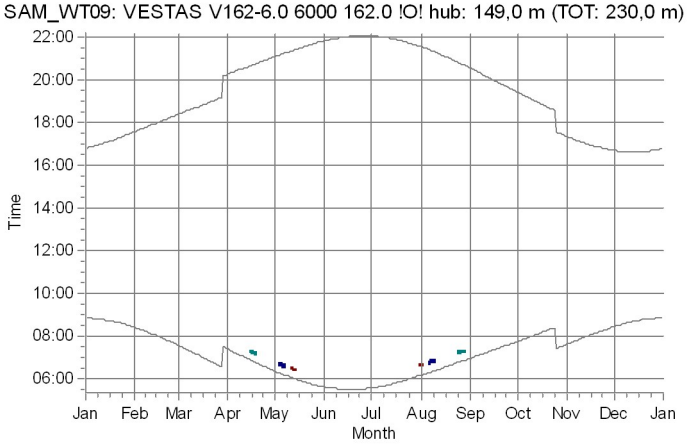
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)



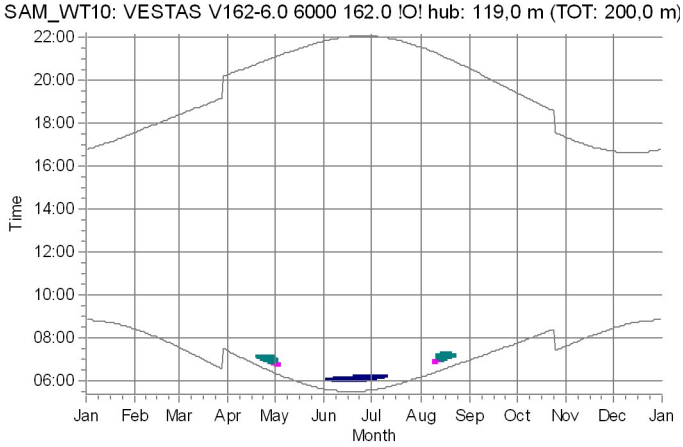
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m)



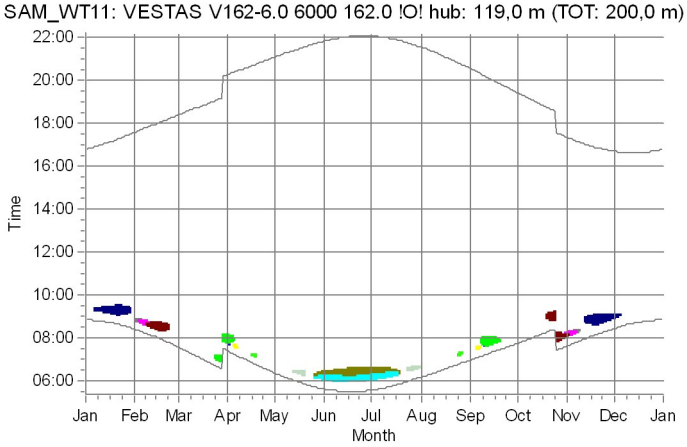
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)



SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m)



SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

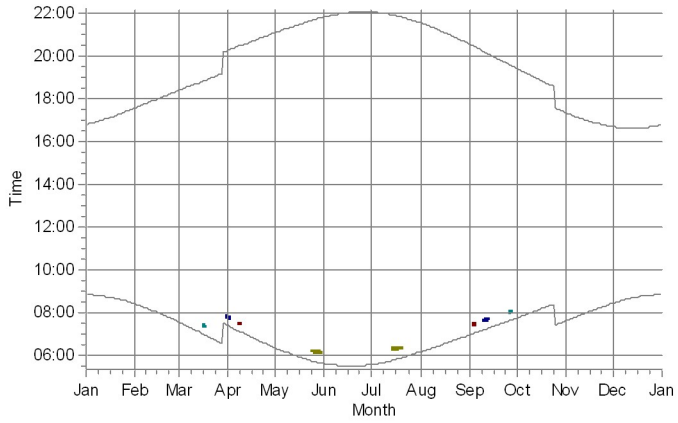
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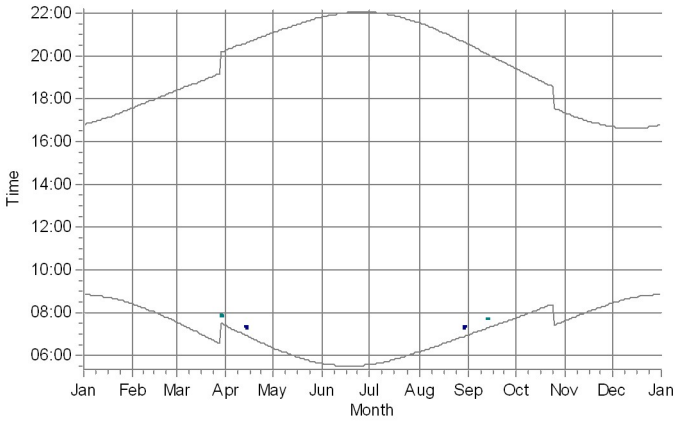
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Ref B

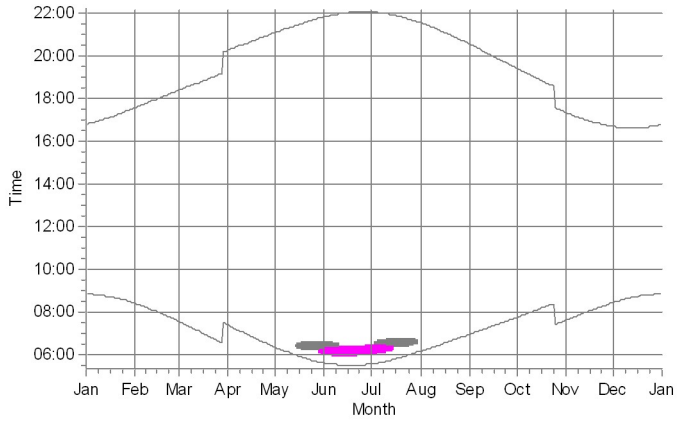
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)



Shadow receptors

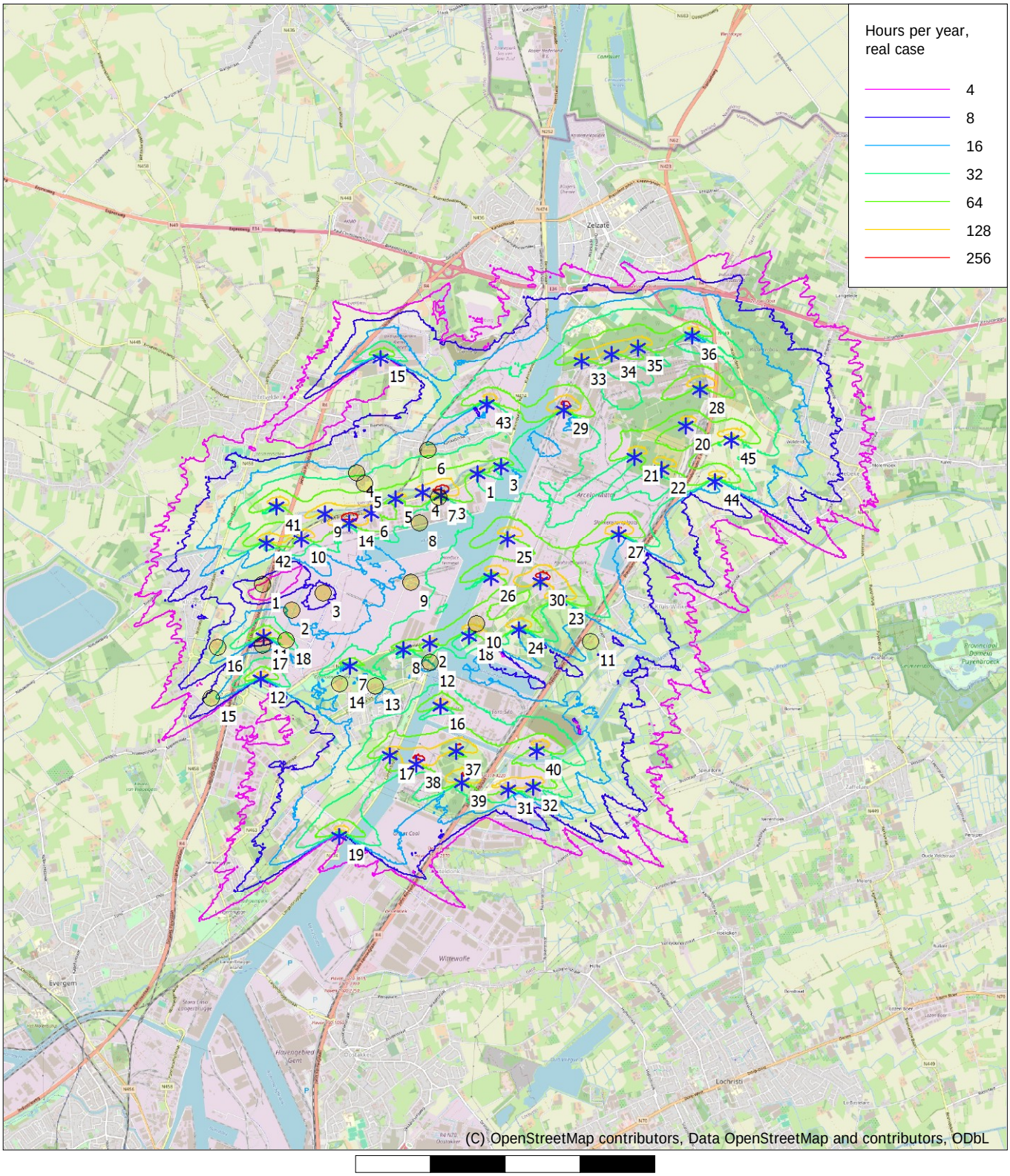
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent

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09/04/2026 03:38/4.1.264

SHADOW - Map

Calculation: Slagschaduw Windpark Stukwerkers - Ref B



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.600 North: 205.380

Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

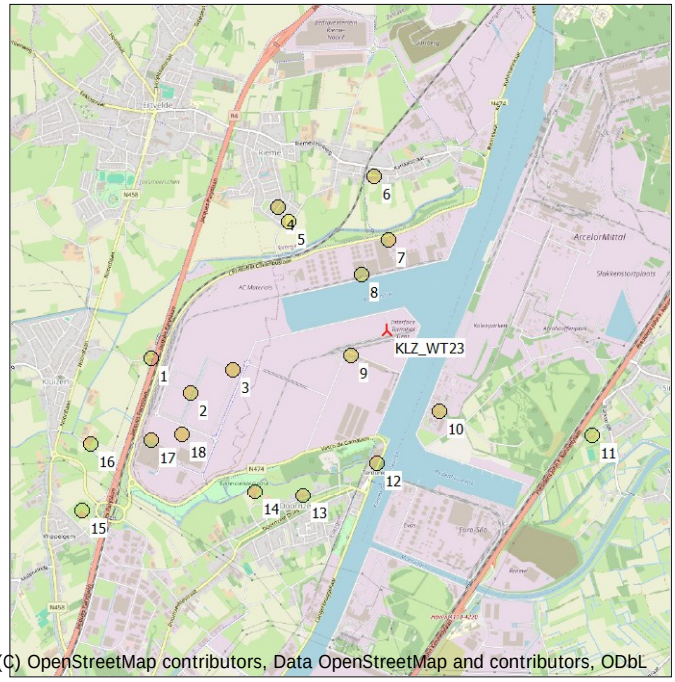
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

Scale 1:75.000
New WTG
Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
KLZ_WT23	108.781	205.627	9,7	KLZ_WT23 Stukwerkers	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	Ooievaarstraat 7, 9940 Evergem	107.712	206.856	6,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Speidamstraat 58, 9940 Evergem	107.822	206.713	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Rimewegel 46, 9940 Evergem	108.680	207.151	7,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Schuitstraat 1, 9042 Gent	110.830	204.575	6,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 41, 9940 Evergem	105.749	203.857	8,6	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

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Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case			Shadow, expected values
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	5:11	23	0:18	1:29
2	Pachtgoederen 2, 9940 Evergem	9:17	34	0:21	2:49
3	Pachtgoederen 2, 9940 Evergem	14:58	43	0:27	4:26
4	Ooievaarstraat 7, 9940 Evergem	27:59	70	0:28	3:35
5	Speidamstraat 58, 9940 Evergem	33:38	81	0:31	4:22
6	Rimewegel 46, 9940 Evergem	0:00	0	0:00	0:00
7	Christoffel Columbuslaan 23, 9042 Gent	29:07	50	0:43	4:33
8	Christoffel Columbuslaan 23, 9042 Gent	119:44	127	1:09	18:58
9	Willem van Rubroeckstraat 2, 9042 Gent	0:00	0	0:00	0:00
10	Arbedkaai 3, 9042 Gent	0:00	0	0:00	0:00
11	Schuitstraat 1, 9042 Gent	11:26	48	0:19	2:50
12	Terdonkkaai 8, 9042 Gent	0:00	0	0:00	0:00
13	Doornzele Dries 107, 9940 Evergem	0:00	0	0:00	0:00
14	Abdijdreef 2, 9940 Evergem	0:00	0	0:00	0:00
15	Hageland 41, 9940 Evergem	3:56	33	0:11	1:14
16	Molendreef 5, 9940 Evergem	3:00	21	0:13	0:55
17	Amerigo Vespuccistraat 2A, 9940 Evergem	6:50	34	0:17	2:07
18	Pachtgoederen 1, 9940 Evergem	12:22	52	0:20	3:50

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
KLZ_WT23	KLZ_WT23 Stukwerkers	243:26	45:41

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

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Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April		May	June	July	August		September		October	November	December
1	08:50	08:24	07:32	07:23		06:20	05:36	05:34	06:09		06:57	07:28 (KLZ_WT23)	07:45	07:37	08:26
	16:48	17:35	18:25	20:17		21:06	21:51	22:04	21:34		20:33 17	07:45 (KLZ_WT23)	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21		06:18	05:36	05:35	06:11		06:59	07:27 (KLZ_WT23)	07:46	07:38	08:27
	16:49	17:37	18:27	20:19		21:08	21:52	22:04	21:32		20:31 18	07:45 (KLZ_WT23)	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19		06:17	05:35	05:35	06:12		07:00	07:27 (KLZ_WT23)	07:48	07:40	08:29
	16:50	17:38	18:28	20:20		21:10	21:53	22:04	21:30		20:29 18	07:45 (KLZ_WT23)	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17		06:15	05:34	05:36	06:14		07:02	07:27 (KLZ_WT23)	07:49	07:42	08:30
	16:51	17:40	18:30	20:22		21:11	21:54	22:03	21:29		20:27 16	07:43 (KLZ_WT23)	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	07:37 (KLZ_WT23)	06:13	05:34	05:37	06:15		07:03	07:29 (KLZ_WT23)	07:51	07:44	08:31
	16:53	17:42	18:32	20:24 7	07:44 (KLZ_WT23)	21:13	21:55	22:03	21:27		20:24 14	07:43 (KLZ_WT23)	19:17	17:14	16:40
6	08:49	08:16	07:22	07:12	07:34 (KLZ_WT23)	06:11	05:33	05:38	06:17		07:05	07:30 (KLZ_WT23)	07:53	07:45	08:33
	16:54	17:44	18:33	20:25 11	07:45 (KLZ_WT23)	21:14	21:56	22:02	21:25		20:22 11	07:41 (KLZ_WT23)	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10	07:32 (KLZ_WT23)	06:09	05:32	05:38	06:18		07:07	07:32 (KLZ_WT23)	07:54	07:47	08:34
	16:55	17:46	18:35	20:27 14	07:46 (KLZ_WT23)	21:16	21:57	22:02	21:24		20:20 8	07:40 (KLZ_WT23)	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	07:30 (KLZ_WT23)	06:08	05:32	05:39	06:20		07:08	07:33 (KLZ_WT23)	07:56	07:49	08:35
	16:56	17:47	18:37	20:29 16	07:46 (KLZ_WT23)	21:18	21:57	22:01	21:22		20:18 2	07:35 (KLZ_WT23)	19:10	17:09	16:39
9	08:48	08:11	07:15	07:06	07:29 (KLZ_WT23)	06:06	05:31	05:40	06:21		07:10		07:58	07:51	08:36
	16:58	17:49	18:39	20:30 18	07:47 (KLZ_WT23)	21:19	21:58	22:00	21:20		20:16		19:08	17:07	16:39
10	08:47	08:09	07:13	07:03	07:29 (KLZ_WT23)	06:04	05:31	05:41	06:23		07:11		07:59	07:52	08:37
	16:59	17:51	18:40	20:32 18	07:47 (KLZ_WT23)	21:21	21:59	22:00	21:18		20:13		19:05	17:06	16:38
11	08:47	08:08	07:11	07:01	07:29 (KLZ_WT23)	06:03	05:31	05:42	06:24		07:13		08:01	07:54	08:38
	17:00	17:53	18:42	20:34 17	07:46 (KLZ_WT23)	21:22	22:00	21:59	21:16		20:11		19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	07:28 (KLZ_WT23)	06:01	05:30	05:43	06:26		07:14		08:02	07:56	08:39
	17:02	17:55	18:44	20:35 17	07:45 (KLZ_WT23)	21:24	22:00	21:58	21:14		20:09		19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	07:29 (KLZ_WT23)	06:00	05:30	05:44	06:27		07:16		08:04	07:57	08:40
	17:03	17:56	18:45	20:37 15	07:44 (KLZ_WT23)	21:25	22:01	21:57	21:13		20:06		18:59	17:01	16:38
14	08:45	08:02	07:04	06:55	07:30 (KLZ_WT23)	05:58	05:30	05:45	06:29		07:18		08:06	07:59	08:41
	17:05	17:58	18:47	20:39 12	07:42 (KLZ_WT23)	21:27	22:02	21:57	21:11		20:04		18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	07:31 (KLZ_WT23)	05:56	05:30	05:47	06:30		07:19		08:07	08:01	08:42
	17:06	18:00	18:49	20:40 9	07:40 (KLZ_WT23)	21:28	22:02	21:56	21:09		20:02		18:55	16:59	16:38
16	08:43	07:58	06:59	06:50		05:55	05:30	05:48	06:32		07:21		08:09	08:03	08:43
	17:08	18:02	18:51	20:42		21:30	22:03	21:55	21:07		20:00		18:53	16:57	16:38
17	08:42	07:57	06:57	06:48		05:54	05:30	05:49	06:34		07:22		08:11	08:04	08:44
	17:09	18:04	18:52	20:43		21:31	22:03	21:54	21:05		19:57		18:50	16:56	16:39
18	08:41	07:55	06:55	06:46		05:52	05:30	05:50	06:35		07:24		08:13	08:06	08:45
	17:11	18:05	18:54	20:45		21:33	22:04	21:53	21:03		19:55		18:48	16:55	16:39
19	08:40	07:53	06:53	06:44		05:51	05:30	05:51	06:37		07:25		08:14	08:08	08:45
	17:12	18:07	18:56	20:47		21:34	22:04	21:51	21:01		19:53		18:46	16:53	16:39
20	08:39	07:51	06:50	06:42		05:49	05:30	05:53	06:38		07:27		08:16	08:09	08:46
	17:14	18:09	18:57	20:48		21:35	22:04	21:50	20:59		19:50		18:44	16:52	16:39
21	08:38	07:49	06:48	06:40		05:48	05:30	05:54	06:40		07:29		08:18	08:11	08:47
	17:16	18:11	18:59	20:50		21:37	22:04	21:49	20:57		19:48		18:42	16:51	16:40
22	08:37	07:47	06:46	06:38		05:47	05:30	05:55	06:41		07:30		08:19	08:12	08:47
	17:17	18:12	19:01	20:52		21:38	22:05	21:48	20:55		19:46		18:40	16:50	16:40
23	08:36	07:45	06:44	06:36		05:46	05:30	05:56	06:43		07:32		08:21	08:14	08:48
	17:19	18:14	19:02	20:53		21:40	22:05	21:47	20:53		19:44		18:38	16:49	16:41
24	08:35	07:43	06:41	06:34		05:44	05:31	05:58	06:45		07:33		08:23	08:16	08:48
	17:21	18:16	19:04	20:55		21:41	22:05	21:45	20:51		19:41		18:36	16:48	16:41
25	08:34	07:41	06:39	06:32		05:43	05:31	05:59	06:46		07:35		07:24	08:17	08:48
	17:22	18:18	19:06	20:57		21:42	22:05	21:44	20:48		19:39		17:34	16:47	16:42
26	08:32	07:39	06:37	06:30		05:42	05:31	06:01	06:48		07:37		07:26	08:19	08:49
	17:24	18:20	19:07	20:58		21:43	22:05	21:43	20:46		19:37		17:32	16:46	16:43
27	08:31	07:36	06:35	06:28		05:41	05:32	06:02	06:49		07:38		07:28	08:20	08:49
	17:26	18:21	19:09	21:00		21:45	22:05	21:41	20:44		19:35		17:30	16:45	16:43
28	08:30	07:34	06:32	06:26		05:40	05:32	06:03	06:51	07:33 (KLZ_WT23)	07:40		07:30	08:22	08:49
	17:28	18:23	19:10	21:01		21:46	22:05	21:40	20:42 9	07:42 (KLZ_WT23)	19:32		17:28	16:44	16:44
29	08:28		07:30	06:24		05:39	05:33	06:05	06:52	07:31 (KLZ_WT23)	07:41		07:31	08:23	08:49
	17:29		20:12	21:03		21:47	22:05	21:38	20:40 12	07:43 (KLZ_WT23)	19:30		17:27	16:44	16:45
30	08:27		07:28	06:22		05:38	05:33	06:06	06:54	07:30 (KLZ_WT23)	07:43		07:33	08:25	08:50
	17:31		20:14	21:05		21:48	22:05	21:37	20:38 15	07:45 (KLZ_WT23)	19:28		17:25	16:43	16:46
31	08:26		07:26			05:37		06:08	06:56	07:28 (KLZ_WT23)			07:35		08:50
	17:33		20:15			21:49		21:35	20:36 17	07:45 (KLZ_WT23)			17:23		16:47
Potential sun hours	262	279	367	415		482	495	498	451		380		333	269	248
Total, worst case				154					53		104				
Sun reduction				0,46					0,47		0,43				
Oper. time red.				0,99					0,99		0,99				
Wind dir. red.				0,64					0,64		0,64				
Total reduction				0,29					0,29		0,27				
Total, real				45					16		28				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April			May			June	July	August			September	October	November	December
1	08:50	08:24	07:32	07:23			06:20		06:48 (KLZ_WT23)	05:36	05:34	06:09			06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17			21:06	21	07:09 (KLZ_WT23)	21:51	22:04	21:34			20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21			06:18		06:48 (KLZ_WT23)	05:36	05:35	06:11		07:05 (KLZ_WT23)	06:59	07:46	07:38	08:27
	16:49	17:36	18:27	20:19			21:08	21	07:09 (KLZ_WT23)	21:52	22:04	21:32	7	07:12 (KLZ_WT23)	20:31	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19			06:17		06:49 (KLZ_WT23)	05:35	05:35	06:12		07:02 (KLZ_WT23)	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20			21:10	20	07:09 (KLZ_WT23)	21:53	22:04	21:30	12	07:14 (KLZ_WT23)	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17			06:15		06:48 (KLZ_WT23)	05:34	05:36	06:14		07:01 (KLZ_WT23)	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22			21:11	21	07:09 (KLZ_WT23)	21:54	22:03	21:29	14	07:15 (KLZ_WT23)	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14			06:13		06:48 (KLZ_WT23)	05:34	05:37	06:15		07:00 (KLZ_WT23)	07:03	07:51	07:44	08:31
	16:53	17:42	18:32	20:24			21:13	20	07:08 (KLZ_WT23)	21:55	22:03	21:27	16	07:16 (KLZ_WT23)	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12			06:11		06:49 (KLZ_WT23)	05:33	05:38	06:17		06:59 (KLZ_WT23)	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25			21:14	19	07:08 (KLZ_WT23)	21:56	22:02	21:25	18	07:17 (KLZ_WT23)	20:22	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10			06:09		06:50 (KLZ_WT23)	05:32	05:38	06:18		06:59 (KLZ_WT23)	07:07	07:54	07:47	08:34
	16:55	17:45	18:35	20:27			21:16	17	07:07 (KLZ_WT23)	21:56	22:02	21:24	19	07:18 (KLZ_WT23)	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08			06:08		06:50 (KLZ_WT23)	05:32	05:39	06:20		06:58 (KLZ_WT23)	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29			21:17	15	07:05 (KLZ_WT23)	21:57	22:01	21:22	20	07:18 (KLZ_WT23)	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:06			06:06		06:52 (KLZ_WT23)	05:31	05:40	06:21		06:58 (KLZ_WT23)	07:10	07:58	07:50	08:36
	16:58	17:49	18:39	20:30			21:19	13	07:05 (KLZ_WT23)	21:58	22:00	21:20	20	07:18 (KLZ_WT23)	20:15	19:08	17:07	16:39
10	08:47	08:09	07:13	07:03			06:04		06:53 (KLZ_WT23)	05:31	05:41	06:23		06:57 (KLZ_WT23)	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32			21:21	9	07:02 (KLZ_WT23)	21:59	22:00	21:18	21	07:18 (KLZ_WT23)	20:13	19:05	17:06	16:38
11	08:46	08:08	07:11	07:01			06:03		06:56 (KLZ_WT23)	05:31	05:42	06:24		06:57 (KLZ_WT23)	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:34			21:22	4	07:00 (KLZ_WT23)	22:00	21:59	21:16	21	07:18 (KLZ_WT23)	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59			06:01			05:30	05:43	06:26		06:57 (KLZ_WT23)	07:14	08:02	07:56	08:39
	17:02	17:55	18:44	20:35			21:24			22:00	21:58	21:14	21	07:18 (KLZ_WT23)	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57			06:00			05:30	05:44	06:27		06:57 (KLZ_WT23)	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37			21:25			22:01	21:57	21:13	20	07:17 (KLZ_WT23)	20:06	18:59	17:01	16:38
14	08:45	08:02	07:04	06:55			05:58			05:30	05:45	06:29		06:58 (KLZ_WT23)	07:18	08:06	07:59	08:41
	17:05	17:58	18:47	20:38			21:27			22:02	21:56	21:11	19	07:17 (KLZ_WT23)	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53			05:56			05:30	05:47	06:30		06:58 (KLZ_WT23)	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40			21:28			22:02	21:56	21:09	17	07:15 (KLZ_WT23)	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50			05:55			05:30	05:48	06:32		06:59 (KLZ_WT23)	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42			21:30			22:03	21:55	21:07	16	07:15 (KLZ_WT23)	20:00	18:53	16:57	16:38
17	08:42	07:57	06:57	06:48			05:54			05:30	05:49	06:34		07:00 (KLZ_WT23)	07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43			21:31			22:03	21:54	21:05	12	07:12 (KLZ_WT23)	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46			05:52			05:30	05:50	06:35		07:02 (KLZ_WT23)	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45			21:33			22:03	21:52	21:03	9	07:11 (KLZ_WT23)	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44			05:51			05:30	05:51	06:37			07:25	08:14	08:08	08:45
	17:12	18:07	18:56	20:47			21:34			22:04	21:51	21:01			19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42			05:49			05:30	05:53	06:38			07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48			21:35			22:04	21:50	20:59			19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40			05:48			05:30	05:54	06:40			07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50			21:37			22:04	21:49	20:57			19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38			05:47			05:30	05:55	06:41			07:30	08:19	08:12	08:47
	17:17	18:12	19:01	20:52			21:38			22:05	21:48	20:55			19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36			05:46			05:30	05:56	06:43			07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53			21:40			22:05	21:47	20:53			19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34			05:44			05:31	05:58	06:45			07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55			21:41			22:05	21:45	20:50			19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32		06:55 (KLZ_WT23)	05:43			05:31	05:59	06:46			07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:57	9	07:04 (KLZ_WT23)	21:42			22:05	21:44	20:48			19:39	17:34	16:47	16:42
26	08:32	07:39	06:37	06:30		06:53 (KLZ_WT23)	05:42			05:31	06:01	06:48			07:36	07:26	08:19	08:49
	17:24	18:20	19:07	20:58	13	07:06 (KLZ_WT23)	21:43			22:05	21:43	20:46			19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28		06:51 (KLZ_WT23)	05:41			05:32	06:02	06:49			07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	16	07:07 (KLZ_WT23)	21:45			22:05	21:41	20:44			19:35	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26		06:51 (KLZ_WT23)	05:40			05:32	06:03	06:51			07:40	07:30	08:22	08:49
	17:28	18:23	19:10	21:01	18	07:09 (KLZ_WT23)	21:46			22:05	21:40	20:42			19:32	17:28	16:44	16:44
29	08:28		07:30	06:24		06:50 (KLZ_WT23)	05:39			05:33	06:05	06:52			07:41	07:31	08:23	08:49
	17:29		20:12	21:03	19	07:09 (KLZ_WT23)	21:47			22:05	21:38	20:40			19:30	17:27	16:44	16:45
30	08:27		07:28	06:22		06:49 (KLZ_WT23)	05:38			05:33	06:06	06:54			07:43	07:33	08:25	08:50
	17:31		20:14	21:05	20	07:09 (KLZ_WT23)	21:48			22:04	21:37	20:38			19:28	17:25	16:43	16:46
31	08:26		07:26				05:37				06:08	06:56				07:35		08:50
	17:33		20:15				21:49				21:35	20:35				17:23		16:47
Potential sun hours	262	279	367	415			482			495	498	451			380	333	269	248
Total, worst case					95			180					282					
Sun reduction					0,46			0,46					0,47					
Oper. time red.					0,99			0,99					0,99					
Wind dir. red.					0,66			0,66					0,66					
Total reduction					0,30			0,30					0,31					
Total, real					29			54					86					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April			May			June	July	August			September	October	November	December
1	08:50	08:24	07:32	07:23			06:20		07:01 (KLZ_WT23)	05:36	05:34	06:09			06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17			21:06	26	07:27 (KLZ_WT23)	21:51	22:04	21:34			20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21			06:18		07:01 (KLZ_WT23)	05:36	05:34	06:11		07:23 (KLZ_WT23)	06:59	07:46	07:38	08:27
	16:49	17:36	18:27	20:19			21:08	26	07:27 (KLZ_WT23)	21:52	22:04	21:32	2	07:25 (KLZ_WT23)	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19			06:16		07:02 (KLZ_WT23)	05:35	05:35	06:12		07:18 (KLZ_WT23)	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20			21:10	25	07:27 (KLZ_WT23)	21:53	22:04	21:30	11	07:29 (KLZ_WT23)	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17			06:15		07:02 (KLZ_WT23)	05:34	05:36	06:14		07:16 (KLZ_WT23)	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22			21:11	24	07:26 (KLZ_WT23)	21:54	22:03	21:29	14	07:30 (KLZ_WT23)	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14			06:13		07:02 (KLZ_WT23)	05:34	05:37	06:15		07:15 (KLZ_WT23)	07:03	07:51	07:44	08:31
	16:53	17:42	18:32	20:24			21:13	23	07:25 (KLZ_WT23)	21:55	22:03	21:27	17	07:32 (KLZ_WT23)	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12			06:11		07:03 (KLZ_WT23)	05:33	05:38	06:17		07:13 (KLZ_WT23)	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25			21:14	22	07:25 (KLZ_WT23)	21:56	22:02	21:25	20	07:33 (KLZ_WT23)	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10			06:09		07:04 (KLZ_WT23)	05:32	05:38	06:18		07:13 (KLZ_WT23)	07:07	07:54	07:47	08:34
	16:55	17:45	18:35	20:27			21:16	19	07:23 (KLZ_WT23)	21:56	22:02	21:24	21	07:34 (KLZ_WT23)	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08			06:08		07:05 (KLZ_WT23)	05:32	05:39	06:20		07:11 (KLZ_WT23)	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29			21:17	16	07:21 (KLZ_WT23)	21:57	22:01	21:22	24	07:35 (KLZ_WT23)	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:06			06:06		07:07 (KLZ_WT23)	05:31	05:40	06:21		07:11 (KLZ_WT23)	07:10	07:57	07:50	08:36
	16:58	17:49	18:39	20:30			21:19	13	07:20 (KLZ_WT23)	21:58	22:00	21:20	25	07:36 (KLZ_WT23)	20:15	19:08	17:07	16:39
10	08:47	08:09	07:13	07:03			06:04		07:09 (KLZ_WT23)	05:31	05:41	06:23		07:10 (KLZ_WT23)	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32			21:21	8	07:17 (KLZ_WT23)	21:59	22:00	21:18	26	07:36 (KLZ_WT23)	20:13	19:05	17:06	16:38
11	08:46	08:08	07:11	07:01			06:03			05:31	05:42	06:24		07:09 (KLZ_WT23)	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:34			21:22			22:00	21:59	21:16	26	07:35 (KLZ_WT23)	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59			06:01			05:30	05:43	06:26		07:09 (KLZ_WT23)	07:14	08:02	07:56	08:39
	17:02	17:55	18:44	20:35			21:24			22:00	21:58	21:14	27	07:36 (KLZ_WT23)	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57			05:59			05:30	05:44	06:27		07:09 (KLZ_WT23)	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37			21:25			22:01	21:57	21:13	27	07:36 (KLZ_WT23)	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55			05:58			05:30	05:45	06:29		07:09 (KLZ_WT23)	07:18	08:06	07:59	08:41
	17:05	17:58	18:47	20:38			21:27			22:02	21:56	21:11	27	07:36 (KLZ_WT23)	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52			05:56			05:30	05:46	06:30		07:09 (KLZ_WT23)	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40			21:28			22:02	21:56	21:09	26	07:35 (KLZ_WT23)	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50			05:55			05:30	05:48	06:32		07:09 (KLZ_WT23)	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42			21:30			22:03	21:55	21:07	26	07:35 (KLZ_WT23)	20:00	18:53	16:57	16:38
17	08:42	07:57	06:57	06:48			05:54			05:30	05:49	06:34		07:09 (KLZ_WT23)	07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43			21:31			22:03	21:54	21:05	25	07:34 (KLZ_WT23)	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46			05:52			05:29	05:50	06:35		07:10 (KLZ_WT23)	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45			21:33			22:03	21:52	21:03	24	07:34 (KLZ_WT23)	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44			05:51			05:30	05:51	06:37		07:10 (KLZ_WT23)	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47			21:34			22:04	21:51	21:01	22	07:32 (KLZ_WT23)	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42		07:12 (KLZ_WT23)	05:49			05:30	05:53	06:38		07:11 (KLZ_WT23)	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	9	07:21 (KLZ_WT23)	21:35			22:04	21:50	20:59	21	07:32 (KLZ_WT23)	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40		07:09 (KLZ_WT23)	05:48			05:30	05:54	06:40		07:12 (KLZ_WT23)	07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	15	07:24 (KLZ_WT23)	21:37			22:04	21:49	20:57	18	07:30 (KLZ_WT23)	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38		07:07 (KLZ_WT23)	05:47			05:30	05:55	06:41		07:14 (KLZ_WT23)	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	18	07:25 (KLZ_WT23)	21:38			22:05	21:48	20:55	14	07:28 (KLZ_WT23)	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36		07:05 (KLZ_WT23)	05:46			05:30	05:56	06:43		07:16 (KLZ_WT23)	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21	07:26 (KLZ_WT23)	21:40			22:05	21:47	20:53	9	07:25 (KLZ_WT23)	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34		07:04 (KLZ_WT23)	05:44			05:30	05:58	06:45			07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	23	07:27 (KLZ_WT23)	21:41			22:05	21:45	20:50			19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32		07:03 (KLZ_WT23)	05:43			05:31	05:59	06:46			07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:57	24	07:27 (KLZ_WT23)	21:42			22:05	21:44	20:48			19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30		07:02 (KLZ_WT23)	05:42			05:31	06:00	06:48			07:36	07:26	08:19	08:49
	17:24	18:20	19:07	20:58	26	07:28 (KLZ_WT23)	21:43			22:05	21:43	20:46			19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28		07:01 (KLZ_WT23)	05:41			05:32	06:02	06:49			07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	27	07:28 (KLZ_WT23)	21:45			22:05	21:41	20:44			19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26		07:01 (KLZ_WT23)	05:40			05:32	06:03	06:51			07:40	07:30	08:22	08:49
	17:28	18:23	19:10	21:01	27	07:28 (KLZ_WT23)	21:46			22:05	21:40	20:42			19:32	17:28	16:44	16:44
29	08:28		07:30	06:24		07:01 (KLZ_WT23)	05:39			05:33	06:05	06:52			07:41	07:31	08:23	08:49
	17:29		20:12	21:03	27	07:28 (KLZ_WT23)	21:47			22:05	21:38	20:40			19:30	17:27	16:44	16:45
30	08:27		07:28	06:22		07:01 (KLZ_WT23)	05:38			05:33	06:06	06:54			07:43	07:33	08:25	08:50
	17:31		20:14	21:05	27	07:28 (KLZ_WT23)	21:48			22:04	21:37	20:38			19:28	17:25	16:43	16:46
31	08:26		07:26				05:37				06:08	06:56				07:35		08:50
	17:33		20:15				21:49				21:35	20:35				17:23		16:47
Potential sun hours	262	279	367	415			482			495	498	451			380	333	269	248
Total, worst case				244			202					452						
Sun reduction				0,46			0,46					0,47						
Oper. time red.				0,99			0,99					0,99						
Wind dir. red.				0,65			0,65					0,65						
Total reduction				0,30			0,29					0,30						
Total, real				72			59					135						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project Assumptions for shadow calculations

Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January			February	March	April	May	June	July	August	September	October	November			December		
1	08:50		09:34 (KLZ_WT23)	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37			08:26		09:19 (KLZ_WT23)
	16:48	25	09:59 (KLZ_WT23)	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21			16:42	27	09:46 (KLZ_WT23)
2	08:50		09:35 (KLZ_WT23)	08:23	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46	07:38			08:27		09:20 (KLZ_WT23)
	16:49	25	10:00 (KLZ_WT23)	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19			16:41	27	09:47 (KLZ_WT23)
3	08:49		09:35 (KLZ_WT23)	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40			08:29		09:20 (KLZ_WT23)
	16:50	26	10:01 (KLZ_WT23)	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:17			16:41	27	09:47 (KLZ_WT23)
4	08:49		09:35 (KLZ_WT23)	08:19	07:26	07:17	06:15	05:34	05:36	06:13	07:02	07:49	07:42			08:30		09:21 (KLZ_WT23)
	16:51	26	10:01 (KLZ_WT23)	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16			16:40	27	09:48 (KLZ_WT23)
5	08:49		09:36 (KLZ_WT23)	08:18	07:24	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:44			08:31		09:21 (KLZ_WT23)
	16:52	26	10:02 (KLZ_WT23)	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14			16:40	27	09:48 (KLZ_WT23)
6	08:49		09:35 (KLZ_WT23)	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:53	07:45			08:33		09:21 (KLZ_WT23)
	16:54	27	10:02 (KLZ_WT23)	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12			16:39	27	09:48 (KLZ_WT23)
7	08:48		09:36 (KLZ_WT23)	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:07	07:54	07:47			08:34		09:23 (KLZ_WT23)
	16:55	27	10:03 (KLZ_WT23)	17:45	18:35	20:27	21:16	21:57	22:02	21:24	20:20	19:12	17:11			16:39	26	09:49 (KLZ_WT23)
8	08:48		09:36 (KLZ_WT23)	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49			08:35		09:23 (KLZ_WT23)
	16:56	27	10:03 (KLZ_WT23)	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09			16:39	26	09:49 (KLZ_WT23)
9	08:48		09:37 (KLZ_WT23)	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:51			08:36		09:23 (KLZ_WT23)
	16:58	27	10:04 (KLZ_WT23)	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07			16:38	26	09:49 (KLZ_WT23)
10	08:47		09:37 (KLZ_WT23)	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52			08:37		09:24 (KLZ_WT23)
	16:59	27	10:04 (KLZ_WT23)	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06			16:38	25	09:49 (KLZ_WT23)
11	08:47		09:37 (KLZ_WT23)	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54			08:38		09:24 (KLZ_WT23)
	17:00	27	10:04 (KLZ_WT23)	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:04			16:38	26	09:50 (KLZ_WT23)
12	08:46		09:38 (KLZ_WT23)	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56			08:39		09:25 (KLZ_WT23)
	17:02	27	10:05 (KLZ_WT23)	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03			16:38	25	09:50 (KLZ_WT23)
13	08:45		09:39 (KLZ_WT23)	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57			08:40		09:25 (KLZ_WT23)
	17:03	27	10:06 (KLZ_WT23)	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01			16:38	25	09:50 (KLZ_WT23)
14	08:45		09:39 (KLZ_WT23)	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59			08:41		09:26 (KLZ_WT23)
	17:05	27	10:06 (KLZ_WT23)	17:58	18:47	20:38	21:27	22:02	21:57	21:11	20:04	18:57	17:00			16:38	25	09:51 (KLZ_WT23)
15	08:44		09:39 (KLZ_WT23)	08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01			08:42		09:27 (KLZ_WT23)
	17:06	27	10:06 (KLZ_WT23)	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:59			16:38	24	09:51 (KLZ_WT23)
16	08:43		09:40 (KLZ_WT23)	07:58	06:59	06:50	05:55	05:29	05:48	06:32	07:21	08:09	08:03			08:43		09:27 (KLZ_WT23)
	17:08	26	10:06 (KLZ_WT23)	18:02	18:50	20:42	21:30	22:03	21:55	21:07	20:00	18:52	16:57			16:38	24	09:51 (KLZ_WT23)
17	08:42		09:41 (KLZ_WT23)	07:57	06:57	06:48	05:53	05:29	05:49	06:34	07:22	08:11	08:04		09:24 (KLZ_WT23)	08:44		09:28 (KLZ_WT23)
	17:09	25	10:06 (KLZ_WT23)	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	10	09:34 (KLZ_WT23)	16:38	24	09:52 (KLZ_WT23)
18	08:41		09:41 (KLZ_WT23)	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06		09:23 (KLZ_WT23)	08:45		09:28 (KLZ_WT23)
	17:11	25	10:06 (KLZ_WT23)	18:05	18:54	20:45	21:33	22:04	21:53	21:03	19:55	18:48	16:55	13	09:36 (KLZ_WT23)	16:39	24	09:52 (KLZ_WT23)
19	08:40		09:42 (KLZ_WT23)	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:08		09:21 (KLZ_WT23)	08:45		09:29 (KLZ_WT23)
	17:12	24	10:06 (KLZ_WT23)	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16	09:37 (KLZ_WT23)	16:39	24	09:53 (KLZ_WT23)
20	08:39		09:43 (KLZ_WT23)	07:51	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09		09:20 (KLZ_WT23)	08:46		09:30 (KLZ_WT23)
	17:14	23	10:06 (KLZ_WT23)	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	19	09:39 (KLZ_WT23)	16:39	23	09:53 (KLZ_WT23)
21	08:38		09:44 (KLZ_WT23)	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:18	08:11		09:20 (KLZ_WT23)	08:47		09:30 (KLZ_WT23)
	17:16	20	10:04 (KLZ_WT23)	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	21	09:41 (KLZ_WT23)	16:40	23	09:53 (KLZ_WT23)
22	08:37		09:45 (KLZ_WT23)	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12		09:19 (KLZ_WT23)	08:47		09:31 (KLZ_WT23)
	17:17	19	10:04 (KLZ_WT23)	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	23	09:42 (KLZ_WT23)	16:40	23	09:54 (KLZ_WT23)
23	08:36		09:47 (KLZ_WT23)	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14		09:18 (KLZ_WT23)	08:48		09:31 (KLZ_WT23)
	17:19	16	10:03 (KLZ_WT23)	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	24	09:42 (KLZ_WT23)	16:41	23	09:54 (KLZ_WT23)
24	08:35		09:49 (KLZ_WT23)	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16		09:19 (KLZ_WT23)	08:48		09:32 (KLZ_WT23)
	17:21	13	10:02 (KLZ_WT23)	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	24	09:43 (KLZ_WT23)	16:41	23	09:55 (KLZ_WT23)
25	08:34		09:50 (KLZ_WT23)	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17		09:19 (KLZ_WT23)	08:48		09:32 (KLZ_WT23)
	17:22	10	10:00 (KLZ_WT23)	18:18	19:05	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47	25	09:44 (KLZ_WT23)	16:42	24	09:56 (KLZ_WT23)
26	08:32			07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19		09:18 (KLZ_WT23)	08:49		09:32 (KLZ_WT23)
	17:24			18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	26	09:44 (KLZ_WT23)	16:43	24	09:56 (KLZ_WT23)
27	08:31			07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20		09:19 (KLZ_WT23)	08:49		09:32 (KLZ_WT23)
	17:26			18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	26	09:45 (KLZ_WT23)	16:43	24	09:56 (KLZ_WT23)
28	08:30			07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22		09:19 (KLZ_WT23)	08:49		09:33 (KLZ_WT23)
	17:28			18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	27	09:46 (KLZ_WT23)	16:44	24	09:57 (KLZ_WT23)
29	08:28				07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23		09:19 (KLZ_WT23)	08:49		09:33 (KLZ_WT23)
	17:29				20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	27	09:46 (KLZ_WT23)	16:45	24	09:57 (KLZ_WT23)
30	08:27				07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25		09:19 (KLZ_WT23)	08:50		09:33 (KLZ_WT23)
	17:31				20:14	21:05	21:48	22:05	21:37	20:38	19:28	17:25	16:43	28	09:47 (KLZ_WT23)	16:46	25	09:58 (KLZ_WT23)
31	08:26				07:25		05:37		06:08	06:55		07:35				08:50		09:34 (KLZ_WT23)
	17:33				20:15		21:49		21:35	20:35		17:23				16:47	25	09:59 (KLZ_WT23)
Potential sun hours	262			279	367	415	482	495	498	452	380	333	269			248		
Total, worst case		599												309			771	
Sun reduction		0,25												0,27			0,23	
Oper. time red.		0,99												0,99			0,99	
Wind dir. red.		0,54												0,54			0,54	
Total reduction		0,13												0,14			0,12	
Total, real		79												44			93	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:
WP Kluizendok v1

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January			February	March	April	May	June	July	August	September	October	November			December		
1	08:50		09:35 (KLZ_WT23)	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37			08:26		09:18 (KLZ_WT23)
	16:48	24	09:59 (KLZ_WT23)	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21			16:42	30	09:48 (KLZ_WT23)
2	08:50		09:35 (KLZ_WT23)	08:23	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46	07:38			08:27		09:19 (KLZ_WT23)
	16:49	25	10:00 (KLZ_WT23)	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19			16:41	29	09:48 (KLZ_WT23)
3	08:49		09:36 (KLZ_WT23)	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40			08:29		09:20 (KLZ_WT23)
	16:50	25	10:01 (KLZ_WT23)	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:17			16:41	28	09:48 (KLZ_WT23)
4	08:49		09:35 (KLZ_WT23)	08:19	07:26	07:17	06:15	05:34	05:36	06:13	07:02	07:49	07:42			08:30		09:21 (KLZ_WT23)
	16:51	26	10:01 (KLZ_WT23)	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16			16:40	28	09:49 (KLZ_WT23)
5	08:49		09:36 (KLZ_WT23)	08:18	07:24	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:44			08:31		09:21 (KLZ_WT23)
	16:52	26	10:02 (KLZ_WT23)	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14			16:40	28	09:49 (KLZ_WT23)
6	08:49		09:35 (KLZ_WT23)	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:53	07:45			08:33		09:21 (KLZ_WT23)
	16:54	27	10:02 (KLZ_WT23)	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12			16:39	27	09:48 (KLZ_WT23)
7	08:48		09:36 (KLZ_WT23)	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47			08:34		09:23 (KLZ_WT23)
	16:55	27	10:03 (KLZ_WT23)	17:45	18:35	20:27	21:16	21:57	22:02	21:24	20:20	19:12	17:11			16:39	26	09:49 (KLZ_WT23)
8	08:48		09:36 (KLZ_WT23)	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49			08:35		09:23 (KLZ_WT23)
	16:56	28	10:04 (KLZ_WT23)	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09			16:39	26	09:49 (KLZ_WT23)
9	08:48		09:37 (KLZ_WT23)	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50			08:36		09:24 (KLZ_WT23)
	16:58	28	10:05 (KLZ_WT23)	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07			16:38	25	09:49 (KLZ_WT23)
10	08:47		09:36 (KLZ_WT23)	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52			08:37		09:24 (KLZ_WT23)
	16:59	29	10:05 (KLZ_WT23)	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06			16:38	25	09:49 (KLZ_WT23)
11	08:46		09:36 (KLZ_WT23)	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54		09:27 (KLZ_WT23)	08:38		09:25 (KLZ_WT23)
	17:00	29	10:05 (KLZ_WT23)	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:04	2	09:29 (KLZ_WT23)	16:38	24	09:49 (KLZ_WT23)
12	08:46		09:37 (KLZ_WT23)	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56		09:22 (KLZ_WT23)	08:39		09:26 (KLZ_WT23)
	17:02	30	10:07 (KLZ_WT23)	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	11	09:33 (KLZ_WT23)	16:38	23	09:49 (KLZ_WT23)
13	08:45		09:37 (KLZ_WT23)	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57		09:20 (KLZ_WT23)	08:40		09:26 (KLZ_WT23)
	17:03	30	10:07 (KLZ_WT23)	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16	09:36 (KLZ_WT23)	16:38	23	09:49 (KLZ_WT23)
14	08:45		09:37 (KLZ_WT23)	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59		09:19 (KLZ_WT23)	08:41		09:27 (KLZ_WT23)
	17:05	30	10:07 (KLZ_WT23)	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	19	09:38 (KLZ_WT23)	16:38	23	09:50 (KLZ_WT23)
15	08:44		09:38 (KLZ_WT23)	08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01		09:18 (KLZ_WT23)	08:42		09:28 (KLZ_WT23)
	17:06	30	10:08 (KLZ_WT23)	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:59	21	09:39 (KLZ_WT23)	16:38	22	09:50 (KLZ_WT23)
16	08:43		09:38 (KLZ_WT23)	07:58	06:59	06:50	05:55	05:29	05:48	06:32	07:21	08:09	08:02		09:17 (KLZ_WT23)	08:43		09:29 (KLZ_WT23)
	17:08	30	10:08 (KLZ_WT23)	18:02	18:50	20:42	21:30	22:03	21:55	21:07	20:00	18:52	16:57	24	09:41 (KLZ_WT23)	16:38	22	09:51 (KLZ_WT23)
17	08:42		09:38 (KLZ_WT23)	07:57	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04		09:17 (KLZ_WT23)	08:44		09:30 (KLZ_WT23)
	17:09	31	10:09 (KLZ_WT23)	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	25	09:42 (KLZ_WT23)	16:38	21	09:51 (KLZ_WT23)
18	08:41		09:39 (KLZ_WT23)	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06		09:17 (KLZ_WT23)	08:45		09:30 (KLZ_WT23)
	17:11	30	10:09 (KLZ_WT23)	18:05	18:54	20:45	21:33	22:04	21:53	21:03	19:55	18:48	16:55	26	09:43 (KLZ_WT23)	16:39	21	09:51 (KLZ_WT23)
19	08:40		09:39 (KLZ_WT23)	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:08		09:16 (KLZ_WT23)	08:45		09:30 (KLZ_WT23)
	17:12	30	10:09 (KLZ_WT23)	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	27	09:43 (KLZ_WT23)	16:39	21	09:51 (KLZ_WT23)
20	08:39		09:40 (KLZ_WT23)	07:51	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09		09:16 (KLZ_WT23)	08:46		09:31 (KLZ_WT23)
	17:14	29	10:09 (KLZ_WT23)	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	28	09:44 (KLZ_WT23)	16:39	21	09:52 (KLZ_WT23)
21	08:38		09:40 (KLZ_WT23)	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:18	08:11		09:16 (KLZ_WT23)	08:47		09:31 (KLZ_WT23)
	17:16	29	10:09 (KLZ_WT23)	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	29	09:45 (KLZ_WT23)	16:40	21	09:52 (KLZ_WT23)
22	08:37		09:41 (KLZ_WT23)	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12		09:16 (KLZ_WT23)	08:47		09:32 (KLZ_WT23)
	17:17	28	10:09 (KLZ_WT23)	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	29	09:45 (KLZ_WT23)	16:40	21	09:53 (KLZ_WT23)
23	08:36		09:42 (KLZ_WT23)	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14		09:15 (KLZ_WT23)	08:48		09:32 (KLZ_WT23)
	17:19	27	10:09 (KLZ_WT23)	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	30	09:45 (KLZ_WT23)	16:41	21	09:53 (KLZ_WT23)
24	08:35		09:43 (KLZ_WT23)	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16		09:16 (KLZ_WT23)	08:48		09:32 (KLZ_WT23)
	17:21	26	10:09 (KLZ_WT23)	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	30	09:46 (KLZ_WT23)	16:41	21	09:53 (KLZ_WT23)
25	08:34		09:43 (KLZ_WT23)	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17		09:16 (KLZ_WT23)	08:48		09:34 (KLZ_WT23)
	17:22	25	10:08 (KLZ_WT23)	18:18	19:05	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47	31	09:47 (KLZ_WT23)	16:42	21	09:55 (KLZ_WT23)
26	08:32		09:44 (KLZ_WT23)	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19		09:16 (KLZ_WT23)	08:49		09:34 (KLZ_WT23)
	17:24	24	10:08 (KLZ_WT23)	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	30	09:46 (KLZ_WT23)	16:43	21	09:55 (KLZ_WT23)
27	08:31		09:45 (KLZ_WT23)	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20		09:17 (KLZ_WT23)	08:49		09:34 (KLZ_WT23)
	17:26	21	10:06 (KLZ_WT23)	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	30	09:47 (KLZ_WT23)	16:43	21	09:55 (KLZ_WT23)
28	08:30		09:47 (KLZ_WT23)	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22		09:18 (KLZ_WT23)	08:49		09:34 (KLZ_WT23)
	17:28	19	10:06 (KLZ_WT23)	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	30	09:48 (KLZ_WT23)	16:44	22	09:56 (KLZ_WT23)
29	08:28		09:48 (KLZ_WT23)		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23		09:17 (KLZ_WT23)	08:49		09:34 (KLZ_WT23)
	17:29	16	10:04 (KLZ_WT23)		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	30	09:47 (KLZ_WT23)	16:45	22	09:56 (KLZ_WT23)
30	08:27		09:51 (KLZ_WT23)		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25		09:18 (KLZ_WT23)	08:50		09:34 (KLZ_WT23)
	17:31	11	10:02 (KLZ_WT23)		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	30	09:48 (KLZ_WT23)	16:46	23	09:57 (KLZ_WT23)
31	08:26				07:25		05:37		06:08	06:55		07:35				08:50		09:35 (KLZ_WT23)
	17:33				20:15		21:49		21:35	20:35		17:23				16:47	23	09:58 (KLZ_WT23)
Potential sun hours	262			279	367	415	482	495	498	452	380	333	269			248		
Total, worst case		790												498			730	
Sun reduction		0,25												0,27			0,23	
Oper. time red.		0,99												0,99			0,99	
Wind dir. red.		0,54												0,54			0,54	
Total reduction		0,13												0,14			0,12	
Total, real		104												71			87	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18	05:35	05:34	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project Assumptions for shadow calculations

Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January			February	March	April	May	June	July	August	September	October	November			December		
1	08:50		12:35 (KLZ_WT23)	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36			08:26		12:27 (KLZ_WT23)
	16:48	39	13:14 (KLZ_WT23)	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21			16:42	27	12:54 (KLZ_WT23)
2	08:50		12:36 (KLZ_WT23)	08:22	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46	07:38			08:27		12:27 (KLZ_WT23)
	16:49	39	13:15 (KLZ_WT23)	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19			16:41	29	12:56 (KLZ_WT23)
3	08:49		12:37 (KLZ_WT23)	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40			08:29		12:26 (KLZ_WT23)
	16:50	38	13:15 (KLZ_WT23)	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17			16:41	31	12:57 (KLZ_WT23)
4	08:49		12:37 (KLZ_WT23)	08:19	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42			08:30		12:26 (KLZ_WT23)
	16:51	37	13:14 (KLZ_WT23)	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16			16:40	33	12:59 (KLZ_WT23)
5	08:49		12:38 (KLZ_WT23)	08:18	07:24	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43			08:31		12:25 (KLZ_WT23)
	16:52	37	13:15 (KLZ_WT23)	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14			16:40	34	12:59 (KLZ_WT23)
6	08:49		12:39 (KLZ_WT23)	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45			08:33		12:25 (KLZ_WT23)
	16:54	35	13:14 (KLZ_WT23)	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12			16:39	35	13:00 (KLZ_WT23)
7	08:48		12:40 (KLZ_WT23)	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47			08:34		12:25 (KLZ_WT23)
	16:55	34	13:14 (KLZ_WT23)	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11			16:39	37	13:02 (KLZ_WT23)
8	08:48		12:41 (KLZ_WT23)	08:13	07:17	07:08	06:08	05:32	05:39	06:19	07:08	07:56	07:49			08:35		12:25 (KLZ_WT23)
	16:56	33	13:14 (KLZ_WT23)	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09			16:39	37	13:02 (KLZ_WT23)
9	08:47		12:43 (KLZ_WT23)	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50			08:36		12:25 (KLZ_WT23)
	16:57	31	13:14 (KLZ_WT23)	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07			16:38	38	13:03 (KLZ_WT23)
10	08:47		12:44 (KLZ_WT23)	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52			08:37		12:25 (KLZ_WT23)
	16:59	29	13:13 (KLZ_WT23)	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06			16:38	39	13:04 (KLZ_WT23)
11	08:46		12:45 (KLZ_WT23)	08:08	07:10	07:01	06:03	05:30	05:42	06:24	07:13	08:01	07:54			08:38		12:25 (KLZ_WT23)
	17:00	27	13:12 (KLZ_WT23)	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04			16:38	39	13:04 (KLZ_WT23)
12	08:46		12:47 (KLZ_WT23)	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56			08:39		12:25 (KLZ_WT23)
	17:02	25	13:12 (KLZ_WT23)	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03			16:38	40	13:05 (KLZ_WT23)
13	08:45		12:49 (KLZ_WT23)	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57			08:40		12:25 (KLZ_WT23)
	17:03	22	13:11 (KLZ_WT23)	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01			16:38	41	13:06 (KLZ_WT23)
14	08:44		12:51 (KLZ_WT23)	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59			08:41		12:25 (KLZ_WT23)
	17:05	18	13:09 (KLZ_WT23)	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00			16:38	41	13:06 (KLZ_WT23)
15	08:44		12:54 (KLZ_WT23)	08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01			08:42		12:26 (KLZ_WT23)
	17:06	13	13:07 (KLZ_WT23)	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58			16:38	41	13:07 (KLZ_WT23)
16	08:43			07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:21	08:09	08:02			08:43		12:26 (KLZ_WT23)
	17:08			18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57			16:38	42	13:08 (KLZ_WT23)
17	08:42			07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04			08:44		12:27 (KLZ_WT23)
	17:09			18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56			16:38	42	13:09 (KLZ_WT23)
18	08:41			07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06			08:45		12:26 (KLZ_WT23)
	17:11			18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55			16:39	43	13:09 (KLZ_WT23)
19	08:40			07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:07			08:45		12:27 (KLZ_WT23)
	17:12			18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53			16:39	43	13:10 (KLZ_WT23)
20	08:39			07:51	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09			08:46		12:28 (KLZ_WT23)
	17:14			18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52			16:39	42	13:10 (KLZ_WT23)
21	08:38			07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11			08:47		12:28 (KLZ_WT23)
	17:16			18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51			16:40	42	13:10 (KLZ_WT23)
22	08:37			07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12			08:47		12:29 (KLZ_WT23)
	17:17			18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50			16:40	42	13:11 (KLZ_WT23)
23	08:36			07:45	06:43	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14			08:48		12:29 (KLZ_WT23)
	17:19			18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49			16:41	42	13:11 (KLZ_WT23)
24	08:35			07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16			08:48		12:29 (KLZ_WT23)
	17:21			18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48			16:41	42	13:11 (KLZ_WT23)
25	08:34			07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17			08:48		12:30 (KLZ_WT23)
	17:22			18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47			16:42	43	13:13 (KLZ_WT23)
26	08:32			07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19			08:49		12:31 (KLZ_WT23)
	17:24			18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46			16:43	42	13:13 (KLZ_WT23)
27	08:31			07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20		12:33 (KLZ_WT23)	08:49		12:31 (KLZ_WT23)
	17:26			18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	13	12:46 (KLZ_WT23)	16:43	42	13:13 (KLZ_WT23)
28	08:30			07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22		12:31 (KLZ_WT23)	08:49		12:32 (KLZ_WT23)
	17:27			18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	18	12:49 (KLZ_WT23)	16:44	41	13:13 (KLZ_WT23)
29	08:28				07:30	06:24	05:39	05:32	06:05	06:52	07:41	07:31	08:23		12:29 (KLZ_WT23)	08:49		12:32 (KLZ_WT23)
	17:29				20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	22	12:51 (KLZ_WT23)	16:45	41	13:13 (KLZ_WT23)
30	08:27				07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25		12:28 (KLZ_WT23)	08:50		12:33 (KLZ_WT23)
	17:31				20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	25	12:53 (KLZ_WT23)	16:46	41	13:14 (KLZ_WT23)
31	08:25				07:25		05:37		06:07	06:55		07:35				08:50		12:34 (KLZ_WT23)
	17:33				20:15		21:49		21:35	20:35		17:23				16:47	40	13:14 (KLZ_WT23)
Potential sun hours	262			279	367	415	482	495	498	452	380	333	269			248		
Total, worst case		457												78			1212	
Sun reduction		0,25												0,27			0,23	
Oper. time red.		0,99												0,99			0,99	
Wind dir. red.		0,68												0,68			0,68	
Total reduction		0,17												0,18			0,15	
Total, real		76												14			183	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January			February			March	April	May	June
1	08:50		10:49 (KLZ_WT23)	08:24		10:50 (KLZ_WT23)	07:32	07:23	06:20	05:36
	16:48	49	11:38 (KLZ_WT23)	17:35	68	11:58 (KLZ_WT23)	18:25	20:17	21:06	21:51
2	08:50		10:49 (KLZ_WT23)	08:23		10:49 (KLZ_WT23)	07:30	07:21	06:18	05:36
	16:49	50	11:39 (KLZ_WT23)	17:36	69	11:58 (KLZ_WT23)	18:26	20:19	21:08	21:52
3	08:49		10:50 (KLZ_WT23)	08:21		10:49 (KLZ_WT23)	07:28	07:19	06:16	05:35
	16:50	50	11:40 (KLZ_WT23)	17:38	69	11:58 (KLZ_WT23)	18:28	20:20	21:09	21:53
4	08:49		10:49 (KLZ_WT23)	08:19		10:50 (KLZ_WT23)	07:26	07:16	06:15	05:34
	16:51	52	11:41 (KLZ_WT23)	17:40	68	11:58 (KLZ_WT23)	18:30	20:22	21:11	21:54
5	08:49		10:49 (KLZ_WT23)	08:18		10:50 (KLZ_WT23)	07:24	07:14	06:13	05:33
	16:52	53	11:42 (KLZ_WT23)	17:42	68	11:58 (KLZ_WT23)	18:32	20:24	21:13	21:55
6	08:49		10:49 (KLZ_WT23)	08:16		10:50 (KLZ_WT23)	07:21	07:12	06:11	05:33
	16:54	53	11:42 (KLZ_WT23)	17:44	67	11:57 (KLZ_WT23)	18:33	20:25	21:14	21:56
7	08:48		10:49 (KLZ_WT23)	08:15		10:51 (KLZ_WT23)	07:19	07:10	06:09	05:32
	16:55	54	11:43 (KLZ_WT23)	17:45	66	11:57 (KLZ_WT23)	18:35	20:27	21:16	21:56
8	08:48		10:49 (KLZ_WT23)	08:13		10:52 (KLZ_WT23)	07:17	07:08	06:08	05:32
	16:56	55	11:44 (KLZ_WT23)	17:47	65	11:57 (KLZ_WT23)	18:37	20:29	21:17	21:57
9	08:47		10:49 (KLZ_WT23)	08:11		10:52 (KLZ_WT23)	07:15	07:05	06:06	05:31
	16:57	56	11:45 (KLZ_WT23)	17:49	64	11:56 (KLZ_WT23)	18:39	20:30	21:19	21:58
10	08:47		10:49 (KLZ_WT23)	08:09		10:53 (KLZ_WT23)	07:13	07:03	06:04	05:31
	16:59	57	11:46 (KLZ_WT23)	17:51	63	11:56 (KLZ_WT23)	18:40	20:32	21:21	21:59
11	08:46		10:49 (KLZ_WT23)	08:08		10:53 (KLZ_WT23)	07:10	07:01	06:03	05:31
	17:00	57	11:46 (KLZ_WT23)	17:53	62	11:55 (KLZ_WT23)	18:42	20:33	21:22	22:00
12	08:46		10:49 (KLZ_WT23)	08:06		10:54 (KLZ_WT23)	07:08	06:59	06:01	05:30
	17:02	59	11:48 (KLZ_WT23)	17:54	60	11:54 (KLZ_WT23)	18:44	20:35	21:24	22:00
13	08:45		10:49 (KLZ_WT23)	08:04		10:54 (KLZ_WT23)	07:06	06:57	05:59	05:30
	17:03	60	11:49 (KLZ_WT23)	17:56	59	11:53 (KLZ_WT23)	18:45	20:37	21:25	22:01
14	08:44		10:49 (KLZ_WT23)	08:02		10:55 (KLZ_WT23)	07:04	06:55	05:58	05:30
	17:05	60	11:49 (KLZ_WT23)	17:58	56	11:51 (KLZ_WT23)	18:47	20:38	21:27	22:02
15	08:44		10:49 (KLZ_WT23)	08:00		10:56 (KLZ_WT23)	07:02	06:52	05:56	05:30
	17:06	61	11:50 (KLZ_WT23)	18:00	54	11:50 (KLZ_WT23)	18:49	20:40	21:28	22:02
16	08:43		10:49 (KLZ_WT23)	07:58		10:57 (KLZ_WT23)	06:59	06:50	05:55	05:29
	17:08	62	11:51 (KLZ_WT23)	18:02	52	11:49 (KLZ_WT23)	18:50	20:42	21:30	22:03
17	08:42		10:49 (KLZ_WT23)	07:56		10:59 (KLZ_WT23)	06:57	06:48	05:53	05:29
	17:09	62	11:51 (KLZ_WT23)	18:03	48	11:47 (KLZ_WT23)	18:52	20:43	21:31	22:03
18	08:41		10:49 (KLZ_WT23)	07:55		11:00 (KLZ_WT23)	06:55	06:46	05:52	05:29
	17:11	63	11:52 (KLZ_WT23)	18:05	45	11:45 (KLZ_WT23)	18:54	20:45	21:33	22:03
19	08:40		10:49 (KLZ_WT23)	07:53		11:02 (KLZ_WT23)	06:53	06:44	05:51	05:29
	17:12	64	11:53 (KLZ_WT23)	18:07	40	11:42 (KLZ_WT23)	18:55	20:47	21:34	22:04
20	08:39		10:49 (KLZ_WT23)	07:51		11:04 (KLZ_WT23)	06:50	06:42	05:49	05:30
	17:14	65	11:54 (KLZ_WT23)	18:09	36	11:40 (KLZ_WT23)	18:57	20:48	21:35	22:04
21	08:38		10:48 (KLZ_WT23)	07:49		11:07 (KLZ_WT23)	06:48	06:40	05:48	05:30
	17:16	66	11:54 (KLZ_WT23)	18:11	29	11:36 (KLZ_WT23)	18:59	20:50	21:37	22:04
22	08:37		10:48 (KLZ_WT23)	07:47		11:11 (KLZ_WT23)	06:46	06:38	05:47	05:30
	17:17	66	11:54 (KLZ_WT23)	18:12	20	11:31 (KLZ_WT23)	19:00	20:52	21:38	22:05
23	08:36		10:48 (KLZ_WT23)	07:45			06:44	06:36	05:45	05:30
	17:19	67	11:55 (KLZ_WT23)	18:14			19:02	20:53	21:40	22:05
24	08:35		10:48 (KLZ_WT23)	07:43			06:41	06:34	05:44	05:30
	17:21	67	11:55 (KLZ_WT23)	18:16			19:04	20:55	21:41	22:05
25	08:34		10:48 (KLZ_WT23)	07:41			06:39	06:32	05:43	05:31
	17:22	68	11:56 (KLZ_WT23)	18:18			19:05	20:56	21:42	22:05
26	08:32		10:49 (KLZ_WT23)	07:38			06:37	06:30	05:42	05:31
	17:24	68	11:57 (KLZ_WT23)	18:19			19:07	20:58	21:43	22:05
27	08:31		10:48 (KLZ_WT23)	07:36			06:34	06:28	05:41	05:32
	17:26	69	11:57 (KLZ_WT23)	18:21			19:09	21:00	21:45	22:05
28	08:30		10:49 (KLZ_WT23)	07:34			06:32	06:26	05:40	05:32
	17:28	68	11:57 (KLZ_WT23)	18:23			19:10	21:01	21:46	22:05
29	08:28		10:48 (KLZ_WT23)				07:30	06:24	05:39	05:33
	17:29	69	11:57 (KLZ_WT23)				20:12	21:03	21:47	22:05
30	08:27		10:49 (KLZ_WT23)				07:28	06:22	05:38	05:33
	17:31	69	11:58 (KLZ_WT23)				20:14	21:05	21:48	22:04
31	08:25		10:49 (KLZ_WT23)				07:25		05:37	
	17:33	69	11:58 (KLZ_WT23)				20:15		21:49	
Potential sun hours	262			279			367	415	482	495
Total, worst case		1888			1228					
Sun reduction		0,25			0,30					
Oper. time red.		0,99			0,99					
Wind dir. red.		0,60			0,60					
Total reduction		0,15			0,18					
Total, real		278			219					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October			November			December		
1	05:34		06:09		06:57		07:44			07:36		10:22 (KLZ_WT23)	08:26		10:31 (KLZ_WT23)
	22:04		21:34		20:33		19:25			17:21	63	11:25 (KLZ_WT23)	16:42	58	11:29 (KLZ_WT23)
2	05:34		06:10		06:59		07:46			07:38		10:22 (KLZ_WT23)	08:27		10:32 (KLZ_WT23)
	22:04		21:32		20:31		19:23			17:19	64	11:26 (KLZ_WT23)	16:41	57	11:29 (KLZ_WT23)
3	05:35		06:12		07:00		07:48			07:40		10:21 (KLZ_WT23)	08:29		10:32 (KLZ_WT23)
	22:04		21:30		20:29		19:21			17:17	65	11:26 (KLZ_WT23)	16:41	56	11:28 (KLZ_WT23)
4	05:36		06:13		07:02		07:49			07:42		10:20 (KLZ_WT23)	08:30		10:34 (KLZ_WT23)
	22:03		21:29		20:27		19:19			17:16	67	11:27 (KLZ_WT23)	16:40	55	11:29 (KLZ_WT23)
5	05:37		06:15		07:03		07:51			07:43		10:20 (KLZ_WT23)	08:31		10:34 (KLZ_WT23)
	22:03		21:27		20:24		19:16			17:14	67	11:27 (KLZ_WT23)	16:40	55	11:29 (KLZ_WT23)
6	05:37		06:16		07:05		07:53			07:45		10:20 (KLZ_WT23)	08:33		10:35 (KLZ_WT23)
	22:02		21:25		20:22		19:14			17:12	68	11:28 (KLZ_WT23)	16:39	53	11:28 (KLZ_WT23)
7	05:38		06:18		07:06		07:54			07:47		10:20 (KLZ_WT23)	08:34		10:36 (KLZ_WT23)
	22:02		21:24		20:20		19:12			17:11	68	11:28 (KLZ_WT23)	16:39	53	11:29 (KLZ_WT23)
8	05:39		06:20		07:08		07:56			07:49		10:20 (KLZ_WT23)	08:35		10:37 (KLZ_WT23)
	22:01		21:22		20:18		19:10			17:09	68	11:28 (KLZ_WT23)	16:39	52	11:29 (KLZ_WT23)
9	05:40		06:21		07:10		07:57			07:50		10:20 (KLZ_WT23)	08:36		10:38 (KLZ_WT23)
	22:00		21:20		20:15		19:08			17:07	69	11:29 (KLZ_WT23)	16:38	51	11:29 (KLZ_WT23)
10	05:41		06:23		07:11		07:59			07:52		10:20 (KLZ_WT23)	08:37		10:38 (KLZ_WT23)
	22:00		21:18		20:13		19:05			17:06	69	11:29 (KLZ_WT23)	16:38	50	11:28 (KLZ_WT23)
11	05:42		06:24		07:13		08:01			07:54		10:21 (KLZ_WT23)	08:38		10:39 (KLZ_WT23)
	21:59		21:16		20:11		19:03			17:04	68	11:29 (KLZ_WT23)	16:38	49	11:28 (KLZ_WT23)
12	05:43		06:26		07:14		08:02			07:56		10:20 (KLZ_WT23)	08:39		10:40 (KLZ_WT23)
	21:58		21:14		20:09		19:01			17:03	69	11:29 (KLZ_WT23)	16:38	48	11:28 (KLZ_WT23)
13	05:44		06:27		07:16		08:04			07:57		10:20 (KLZ_WT23)	08:40		10:40 (KLZ_WT23)
	21:57		21:12		20:06		18:59			17:01	69	11:29 (KLZ_WT23)	16:38	49	11:29 (KLZ_WT23)
14	05:45		06:29		07:17		08:06			07:59		10:21 (KLZ_WT23)	08:41		10:41 (KLZ_WT23)
	21:56		21:11		20:04		18:57			17:00	68	11:29 (KLZ_WT23)	16:38	48	11:29 (KLZ_WT23)
15	05:46		06:30		07:19		08:07			08:01		10:21 (KLZ_WT23)	08:42		10:42 (KLZ_WT23)
	21:56		21:09		20:02		18:55			16:58	68	11:29 (KLZ_WT23)	16:38	47	11:29 (KLZ_WT23)
16	05:48		06:32		07:21		08:09			08:02		10:22 (KLZ_WT23)	08:43		10:43 (KLZ_WT23)
	21:55		21:07		19:59		18:52			16:57	68	11:30 (KLZ_WT23)	16:38	47	11:30 (KLZ_WT23)
17	05:49		06:33		07:22		08:11			08:04		10:22 (KLZ_WT23)	08:44		10:44 (KLZ_WT23)
	21:54		21:05		19:57		18:50			16:56	68	11:30 (KLZ_WT23)	16:38	46	11:30 (KLZ_WT23)
18	05:50		06:35		07:24		08:12			08:06		10:22 (KLZ_WT23)	08:45		10:44 (KLZ_WT23)
	21:52		21:03		19:55		18:48			16:55	67	11:29 (KLZ_WT23)	16:39	46	11:30 (KLZ_WT23)
19	05:51		06:37		07:25		08:14		11:47 (KLZ_WT23)	08:07		10:22 (KLZ_WT23)	08:45		10:45 (KLZ_WT23)
	21:51		21:01		19:53		18:46	10	11:57 (KLZ_WT23)	16:53	67	11:29 (KLZ_WT23)	16:39	45	11:30 (KLZ_WT23)
20	05:52		06:38		07:27		08:16		11:41 (KLZ_WT23)	08:09		10:23 (KLZ_WT23)	08:46		10:46 (KLZ_WT23)
	21:50		20:59		19:50		18:44	23	12:04 (KLZ_WT23)	16:52	66	11:29 (KLZ_WT23)	16:39	45	11:31 (KLZ_WT23)
21	05:54		06:40		07:28		08:17		11:37 (KLZ_WT23)	08:11		10:24 (KLZ_WT23)	08:47		10:46 (KLZ_WT23)
	21:49		20:57		19:48		18:42	31	12:08 (KLZ_WT23)	16:51	66	11:30 (KLZ_WT23)	16:40	45	11:31 (KLZ_WT23)
22	05:55		06:41		07:30		08:19		11:34 (KLZ_WT23)	08:12		10:25 (KLZ_WT23)	08:47		10:47 (KLZ_WT23)
	21:48		20:55		19:46		18:40	37	12:11 (KLZ_WT23)	16:50	65	11:30 (KLZ_WT23)	16:40	45	11:32 (KLZ_WT23)
23	05:56		06:43		07:32		08:21		11:32 (KLZ_WT23)	08:14		10:25 (KLZ_WT23)	08:48		10:47 (KLZ_WT23)
	21:47		20:52		19:44		18:38	42	12:14 (KLZ_WT23)	16:49	64	11:29 (KLZ_WT23)	16:41	45	11:32 (KLZ_WT23)
24	05:58		06:44		07:33		08:23		11:30 (KLZ_WT23)	08:16		10:26 (KLZ_WT23)	08:48		10:47 (KLZ_WT23)
	21:45		20:50		19:41		18:36	46	12:16 (KLZ_WT23)	16:48	63	11:29 (KLZ_WT23)	16:41	45	11:32 (KLZ_WT23)
25	05:59		06:46		07:35		07:24		10:29 (KLZ_WT23)	08:17		10:27 (KLZ_WT23)	08:48		10:48 (KLZ_WT23)
	21:44		20:48		19:39		17:34	49	11:18 (KLZ_WT23)	16:47	63	11:30 (KLZ_WT23)	16:42	45	11:33 (KLZ_WT23)
26	06:00		06:48		07:36		07:26		10:28 (KLZ_WT23)	08:19		10:27 (KLZ_WT23)	08:49		10:48 (KLZ_WT23)
	21:43		20:46		19:37		17:32	51	11:19 (KLZ_WT23)	16:46	62	11:29 (KLZ_WT23)	16:43	46	11:34 (KLZ_WT23)
27	06:02		06:49		07:38		07:28		10:26 (KLZ_WT23)	08:20		10:28 (KLZ_WT23)	08:49		10:48 (KLZ_WT23)
	21:41		20:44		19:34		17:30	54	11:20 (KLZ_WT23)	16:45	61	11:29 (KLZ_WT23)	16:43	46	11:34 (KLZ_WT23)
28	06:03		06:51		07:40		07:30		10:25 (KLZ_WT23)	08:22		10:29 (KLZ_WT23)	08:49		10:48 (KLZ_WT23)
	21:40		20:42		19:32		17:28	56	11:21 (KLZ_WT23)	16:44	60	11:29 (KLZ_WT23)	16:44	47	11:35 (KLZ_WT23)
29	06:05		06:52		07:41		07:31		10:24 (KLZ_WT23)	08:23		10:29 (KLZ_WT23)	08:49		10:48 (KLZ_WT23)
	21:38		20:40		19:30		17:26	59	11:23 (KLZ_WT23)	16:43	60	11:29 (KLZ_WT23)	16:45	48	11:36 (KLZ_WT23)
30	06:06		06:54		07:43		07:33		10:23 (KLZ_WT23)	08:25		10:30 (KLZ_WT23)	08:50		10:48 (KLZ_WT23)
	21:37		20:38		19:28		17:25	61	11:24 (KLZ_WT23)	16:43	59	11:29 (KLZ_WT23)	16:46	48	11:36 (KLZ_WT23)
31	06:08		06:55				07:35		10:23 (KLZ_WT23)				08:50		10:49 (KLZ_WT23)
	21:35		20:35				17:23	62	11:25 (KLZ_WT23)				16:47	48	11:37 (KLZ_WT23)
Potential sun hours	498		452		380		333			269			248		
Total, worst case								581			1969			1518	
Sun reduction								0,36			0,27			0,23	
Oper. time red.								0,99			0,99			0,99	
Wind dir. red.								0,60			0,60			0,60	
Total reduction								0,22			0,16			0,13	
Total, real								125			313			203	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:48	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	451	380	333	269	248
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:48	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:15	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	451	380	333	269	248
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May			June			July			August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20			05:36			20:49 (KLZ_WT23)	05:34			06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06			21:50	12		21:01 (KLZ_WT23)	22:04			21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18			05:35			20:50 (KLZ_WT23)	05:34			06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08			21:51	10		21:00 (KLZ_WT23)	22:04			21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16			05:35			20:51 (KLZ_WT23)	05:35			06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09			21:52	9		21:00 (KLZ_WT23)	22:03			21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14			05:34			20:52 (KLZ_WT23)	05:36			06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11			21:53	7		20:59 (KLZ_WT23)	22:03			21:28	20:26	19:18	17:16	16:40
5	08:49	08:18	07:23	07:14	06:13			05:33			20:54 (KLZ_WT23)	05:37			06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:12			21:54	4		20:58 (KLZ_WT23)	22:02			21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11			05:33				05:37			06:16	07:05	07:52	07:45	08:32
	16:54	17:43	18:33	20:25	21:14			21:55				22:02			21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09			05:32				05:38			06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16			21:56				22:01			21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07			05:32				05:39		21:00 (KLZ_WT23)	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17			21:57				22:01	6	21:06 (KLZ_WT23)	21:22	20:17	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06			05:31				05:40		20:59 (KLZ_WT23)	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19			21:58				22:00	8	21:07 (KLZ_WT23)	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04			05:31				05:41		20:58 (KLZ_WT23)	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20			21:59				21:59	10	21:08 (KLZ_WT23)	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02			05:30				05:42		20:58 (KLZ_WT23)	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22			21:59				21:59	11	21:09 (KLZ_WT23)	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01			05:30				05:43		20:57 (KLZ_WT23)	06:26	07:14	08:02	07:55	08:39
	17:02	17:54	18:43	20:35	21:23			22:00				21:58	13	21:10 (KLZ_WT23)	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59		20:50 (KLZ_WT23)	05:30				05:44		20:57 (KLZ_WT23)	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	6	20:56 (KLZ_WT23)	22:01				21:57	14	21:11 (KLZ_WT23)	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58		20:48 (KLZ_WT23)	05:30				05:45		20:56 (KLZ_WT23)	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	9	20:57 (KLZ_WT23)	22:01				21:56	15	21:11 (KLZ_WT23)	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56		20:47 (KLZ_WT23)	05:30				05:46		20:56 (KLZ_WT23)	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	12	20:59 (KLZ_WT23)	22:02				21:55	16	21:12 (KLZ_WT23)	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55		20:46 (KLZ_WT23)	05:29				05:47		20:55 (KLZ_WT23)	06:32	07:20	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:29	13	20:59 (KLZ_WT23)	22:02				21:54	17	21:12 (KLZ_WT23)	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53		20:45 (KLZ_WT23)	05:29				05:49		20:55 (KLZ_WT23)	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	16	21:01 (KLZ_WT23)	22:03				21:53	18	21:13 (KLZ_WT23)	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52		20:45 (KLZ_WT23)	05:29				05:50		20:55 (KLZ_WT23)	06:35	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	17	21:02 (KLZ_WT23)	22:03				21:52	18	21:13 (KLZ_WT23)	21:03	19:55	18:48	16:54	16:39
19	08:40	07:52	06:52	06:44	05:51		20:45 (KLZ_WT23)	05:29				05:51		20:54 (KLZ_WT23)	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	18	21:03 (KLZ_WT23)	22:04				21:51	19	21:13 (KLZ_WT23)	21:01	19:53	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49		20:44 (KLZ_WT23)	05:29				05:52		20:54 (KLZ_WT23)	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	19	21:03 (KLZ_WT23)	22:04				21:50	19	21:13 (KLZ_WT23)	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48		20:44 (KLZ_WT23)	05:30				05:54		20:55 (KLZ_WT23)	06:40	07:28	08:17	08:11	08:46
	17:16	18:10	18:59	20:50	21:37	19	21:03 (KLZ_WT23)	22:04				21:49	19	21:14 (KLZ_WT23)	20:56	19:48	18:42	16:51	16:40
22	08:37	07:46	06:46	06:38	05:47		20:44 (KLZ_WT23)	05:30				05:55		20:55 (KLZ_WT23)	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	19	21:03 (KLZ_WT23)	22:04				21:48	19	21:14 (KLZ_WT23)	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45		20:45 (KLZ_WT23)	05:30				05:56		20:55 (KLZ_WT23)	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	19	21:04 (KLZ_WT23)	22:05				21:46	19	21:14 (KLZ_WT23)	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34	05:44		20:45 (KLZ_WT23)	05:30				05:58		20:55 (KLZ_WT23)	06:44	07:33	08:22	08:15	08:48
	17:21	18:16	19:04	20:55	21:41	19	21:04 (KLZ_WT23)	22:05				21:45	18	21:13 (KLZ_WT23)	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43		20:45 (KLZ_WT23)	05:31				05:59		20:56 (KLZ_WT23)	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	18	21:03 (KLZ_WT23)	22:05				21:44	18	21:14 (KLZ_WT23)	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42		20:45 (KLZ_WT23)	05:31				06:00		20:56 (KLZ_WT23)	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	18	21:03 (KLZ_WT23)	22:05				21:42	16	21:12 (KLZ_WT23)	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41		20:46 (KLZ_WT23)	05:31				06:02		20:56 (KLZ_WT23)	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	17	21:03 (KLZ_WT23)	22:05				21:41	15	21:11 (KLZ_WT23)	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40		20:46 (KLZ_WT23)	05:32				06:03		20:57 (KLZ_WT23)	06:51	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	17	21:03 (KLZ_WT23)	22:05				21:39	13	21:10 (KLZ_WT23)	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39		20:47 (KLZ_WT23)	05:32				06:05		20:58 (KLZ_WT23)	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	15	21:02 (KLZ_WT23)	22:04				21:38	10	21:08 (KLZ_WT23)	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38		20:48 (KLZ_WT23)	05:33				06:06		20:59 (KLZ_WT23)	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	15	21:03 (KLZ_WT23)	22:04				21:37	8	21:07 (KLZ_WT23)	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		20:48 (KLZ_WT23)					06:07		21:01 (KLZ_WT23)	06:55		07:35		08:49
	17:33		20:15		21:49	14	21:02 (KLZ_WT23)					21:35	5	21:06 (KLZ_WT23)	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482			495				498			451	380	333	269	248
Total, worst case						300			42				344						
Sun reduction						0,46			0,44				0,45						
Oper. time red.						0,99			0,99				0,99						
Wind dir. red.						0,56			0,56				0,56						
Total reduction						0,25			0,24				0,25						
Total, real						76			10				85						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
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	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
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	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09	08:46
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22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41
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	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
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	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	451	380	333	269	248
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:07	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
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13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
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15	08:44	08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:54	21:07	20:00	18:53	16:57	16:38
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:45
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19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45
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	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41
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	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	495	498	451	380	333	269	248
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:23	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:27	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:07	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:06	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:30	05:47	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:54	21:07	20:00	18:53	16:57	16:38
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:31	05:58	06:45	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49
	17:24	18:20	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:26		05:37		06:08	06:56		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	451	380	333	269	248
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May			June			July			August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20			05:37			06:04 (KLZ_WT23)	05:34			06:09	06:57	07:45	07:37	08:26
	16:48	17:35	18:25	20:17	21:06			21:51	11		06:15 (KLZ_WT23)	22:04			21:34	20:33	19:26	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18			05:36			06:06 (KLZ_WT23)	05:35			06:11	06:59	07:46	07:38	08:27
	16:49	17:37	18:27	20:19	21:08			21:52	10		06:16 (KLZ_WT23)	22:04			21:32	20:31	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19	06:17			05:35			06:06 (KLZ_WT23)	05:35			06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10			21:53	9		06:15 (KLZ_WT23)	22:04			21:30	20:29	19:21	17:18	16:41
4	08:49	08:19	07:26	07:17	06:15			05:34			06:07 (KLZ_WT23)	05:36			06:14	07:02	07:49	07:42	08:30
	16:52	17:40	18:30	20:22	21:11			21:54	8		06:15 (KLZ_WT23)	22:03			21:29	20:27	19:19	17:16	16:41
5	08:49	08:18	07:24	07:14	06:13			05:34			06:07 (KLZ_WT23)	05:37		06:17 (KLZ_WT23)	06:15	07:04	07:51	07:44	08:31
	16:53	17:42	18:32	20:24	21:13			21:55	7		06:14 (KLZ_WT23)	22:03	1	06:18 (KLZ_WT23)	21:27	20:24	19:17	17:14	16:40
6	08:49	08:16	07:22	07:12	06:11			05:33			06:09 (KLZ_WT23)	05:38		06:14 (KLZ_WT23)	06:17	07:05	07:53	07:45	08:33
	16:54	17:44	18:34	20:25	21:14			21:56	5		06:14 (KLZ_WT23)	22:02	5	06:19 (KLZ_WT23)	21:25	20:22	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10	06:09			05:33			06:09 (KLZ_WT23)	05:39		06:14 (KLZ_WT23)	06:18	07:07	07:54	07:47	08:34
	16:55	17:46	18:35	20:27	21:16			21:56	4		06:13 (KLZ_WT23)	22:02	6	06:20 (KLZ_WT23)	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08			05:32				05:39		06:14 (KLZ_WT23)	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:18			21:57				22:01	7	06:21 (KLZ_WT23)	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:06	06:06			05:32				05:40		06:13 (KLZ_WT23)	06:21	07:10	07:58	07:51	08:36
	16:58	17:49	18:39	20:30	21:19			21:58				22:00	9	06:22 (KLZ_WT23)	21:20	20:16	19:08	17:08	16:39
10	08:47	08:09	07:13	07:03	06:04			05:31				05:41		06:13 (KLZ_WT23)	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21			21:59				22:00	10	06:23 (KLZ_WT23)	21:18	20:13	19:06	17:06	16:38
11	08:46	08:08	07:11	07:01	06:03			05:31				05:42		06:13 (KLZ_WT23)	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:34	21:22			22:00				21:59	11	06:24 (KLZ_WT23)	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01			05:30				05:43		06:13 (KLZ_WT23)	06:26	07:14	08:03	07:56	08:39
	17:02	17:55	18:44	20:35	21:24			22:00				21:58	11	06:24 (KLZ_WT23)	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00			05:30				05:44		06:14 (KLZ_WT23)	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25			22:01				21:57	10	06:24 (KLZ_WT23)	21:13	20:06	18:59	17:02	16:38
14	08:45	08:02	07:04	06:55	05:58			05:30				05:46		06:15 (KLZ_WT23)	06:29	07:18	08:06	07:59	08:41
	17:05	17:58	18:47	20:39	21:27			22:02				21:56	10	06:25 (KLZ_WT23)	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:57			05:30				05:47		06:16 (KLZ_WT23)	06:31	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28			22:02				21:56	9	06:25 (KLZ_WT23)	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55			05:30				05:48		06:17 (KLZ_WT23)	06:32	07:21	08:09	08:03	08:43
	17:08	18:02	18:51	20:42	21:30			22:03				21:55	8	06:25 (KLZ_WT23)	21:07	20:00	18:53	16:57	16:38
17	08:42	07:57	06:57	06:48	05:54			05:30				05:49		06:18 (KLZ_WT23)	06:34	07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43	21:31			22:03				21:54	7	06:25 (KLZ_WT23)	21:05	19:57	18:51	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52			05:30				05:50		06:19 (KLZ_WT23)	06:35	07:24	08:13	08:06	08:45
	17:11	18:05	18:54	20:45	21:33			22:03				21:53	6	06:25 (KLZ_WT23)	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51			05:30				05:51		06:21 (KLZ_WT23)	06:37	07:25	08:14	08:08	08:45
	17:13	18:07	18:56	20:47	21:34			22:04				21:51	5	06:26 (KLZ_WT23)	21:01	19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42	05:50			05:30				05:53		06:22 (KLZ_WT23)	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35			22:04				21:50	3	06:25 (KLZ_WT23)	20:59	19:51	18:44	16:52	16:40
21	08:38	07:49	06:48	06:40	05:48			05:30				05:54		06:23 (KLZ_WT23)	06:40	07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37			22:04				21:49	1	06:24 (KLZ_WT23)	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47			05:30				05:55			06:42	07:30	08:19	08:12	08:47
	17:17	18:13	19:01	20:52	21:38			22:05				21:48			20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46		06:12 (KLZ_WT23)	05:30				05:57			06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	2	06:14 (KLZ_WT23)	22:05				21:47			20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:45		06:11 (KLZ_WT23)	05:31				05:58			06:45	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	4	06:15 (KLZ_WT23)	22:05				21:45			20:51	19:41	18:36	16:48	16:42
25	08:34	07:41	06:39	06:32	05:43		06:10 (KLZ_WT23)	05:31				05:59			06:46	07:35	07:24	08:17	08:48
	17:23	18:18	19:06	20:57	21:42	5	06:15 (KLZ_WT23)	22:05				21:44			20:48	19:39	17:34	16:47	16:42
26	08:32	07:39	06:37	06:30	05:42		06:09 (KLZ_WT23)	05:31				06:01			06:48	07:37	07:26	08:19	08:49
	17:24	18:20	19:07	20:58	21:43	6	06:15 (KLZ_WT23)	22:05				21:43			20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41		06:08 (KLZ_WT23)	05:32				06:02			06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	8	06:16 (KLZ_WT23)	22:05				21:41			20:44	19:35	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26	05:40		06:08 (KLZ_WT23)	05:32				06:03			06:51	07:40	07:30	08:22	08:49
	17:28	18:23	19:11	21:01	21:46	8	06:16 (KLZ_WT23)	22:05				21:40			20:42	19:32	17:29	16:44	16:44
29	08:28		07:30	06:24	05:39		06:07 (KLZ_WT23)	05:33				06:05			06:53	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	9	06:16 (KLZ_WT23)	22:05				21:38			20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38		06:06 (KLZ_WT23)	05:33				06:06			06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	10	06:16 (KLZ_WT23)	22:04				21:37			20:38	19:28	17:25	16:43	16:46
31	08:26		07:26		05:37		06:05 (KLZ_WT23)					06:08			06:56		07:35		08:50
	17:33		20:15		21:49	11	06:16 (KLZ_WT23)					21:35			20:36		17:23		16:47
Potential sun hours	262	279	367	414	482			494				498			451	380	333	269	248
Total, worst case						63			54				119						
Sun reduction						0,46			0,44				0,45						
Oper. time red.						0,99			0,99				0,99						
Wind dir. red.						0,71			0,71				0,71						
Total reduction						0,32			0,31				0,31						
Total, real						20			17				37						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project Assumptions for shadow calculations

Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April			May			June	July	August			September	October	November	December
1	08:50	08:24	07:32	07:23			06:20		06:44 (KLZ_WT23)	05:37	05:34	06:09			06:57	07:45	07:37	08:26
	16:48	17:35	18:25	20:17			21:06	6	06:50 (KLZ_WT23)	21:51	22:04	21:34			20:33	19:26	17:21	16:42
2	08:50	08:23	07:30	07:21			06:18		06:42 (KLZ_WT23)	05:36	05:35	06:11			06:59	07:46	07:38	08:27
	16:49	17:37	18:27	20:19			21:08	9	06:51 (KLZ_WT23)	21:52	22:04	21:32			20:31	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19			06:17		06:41 (KLZ_WT23)	05:35	05:35	06:12			07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20			21:10	10	06:51 (KLZ_WT23)	21:53	22:04	21:30			20:29	19:21	17:18	16:41
4	08:49	08:20	07:26	07:17			06:15		06:39 (KLZ_WT23)	05:34	05:36	06:14		06:51 (KLZ_WT23)	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22			21:11	12	06:51 (KLZ_WT23)	21:54	22:03	21:29	6	06:57 (KLZ_WT23)	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14			06:13		06:37 (KLZ_WT23)	05:34	05:37	06:15		06:49 (KLZ_WT23)	07:03	07:51	07:44	08:31
	16:53	17:42	18:32	20:24			21:13	13	06:50 (KLZ_WT23)	21:55	22:03	21:27	9	06:58 (KLZ_WT23)	20:24	19:17	17:14	16:40
6	08:49	08:16	07:22	07:12			06:11		06:38 (KLZ_WT23)	05:33	05:38	06:17		06:48 (KLZ_WT23)	07:05	07:53	07:45	08:33
	16:54	17:44	18:34	20:25			21:14	12	06:50 (KLZ_WT23)	21:56	22:02	21:25	11	06:59 (KLZ_WT23)	20:22	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10			06:09		06:38 (KLZ_WT23)	05:32	05:38	06:18		06:47 (KLZ_WT23)	07:07	07:54	07:47	08:34
	16:55	17:46	18:35	20:27			21:16	11	06:49 (KLZ_WT23)	21:57	22:02	21:24	13	07:00 (KLZ_WT23)	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08			06:08		06:39 (KLZ_WT23)	05:32	05:39	06:20		06:47 (KLZ_WT23)	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29			21:18	8	06:47 (KLZ_WT23)	21:57	22:01	21:22	13	07:00 (KLZ_WT23)	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:06			06:06		06:42 (KLZ_WT23)	05:32	05:40	06:21		06:49 (KLZ_WT23)	07:10	07:58	07:51	08:36
	16:58	17:49	18:39	20:30			21:19	4	06:46 (KLZ_WT23)	21:58	22:00	21:20	11	07:00 (KLZ_WT23)	20:16	19:08	17:08	16:39
10	08:47	08:09	07:13	07:03			06:04			05:31	05:41	06:23		06:50 (KLZ_WT23)	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32			21:21			21:59	22:00	21:18	10	07:00 (KLZ_WT23)	20:13	19:06	17:06	16:38
11	08:47	08:08	07:11	07:01			06:03			05:31	05:42	06:24		06:52 (KLZ_WT23)	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:34			21:22			22:00	21:59	21:16	8	07:00 (KLZ_WT23)	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59			06:01			05:30	05:43	06:26		06:53 (KLZ_WT23)	07:14	08:03	07:56	08:39
	17:02	17:55	18:44	20:35			21:24			22:00	21:58	21:15	6	06:59 (KLZ_WT23)	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57			06:00			05:30	05:44	06:27		06:54 (KLZ_WT23)	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37			21:25			22:01	21:57	21:13	3	06:57 (KLZ_WT23)	20:06	18:59	17:02	16:38
14	08:45	08:02	07:04	06:55			05:58			05:30	05:45	06:29			07:18	08:06	07:59	08:41
	17:05	17:58	18:47	20:39			21:27			22:02	21:57	21:11			20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53			05:57			05:30	05:47	06:31			07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40			21:28			22:02	21:56	21:09			20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50			05:55			05:30	05:48	06:32			07:21	08:09	08:03	08:43
	17:08	18:02	18:51	20:42			21:30			22:03	21:55	21:07			20:00	18:53	16:57	16:38
17	08:42	07:57	06:57	06:48			05:54			05:30	05:49	06:34			07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43			21:31			22:03	21:54	21:05			19:57	18:51	16:56	16:39
18	08:41	07:55	06:55	06:46			05:52			05:30	05:50	06:35			07:24	08:13	08:06	08:45
	17:11	18:05	18:54	20:45			21:33			22:04	21:53	21:03			19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44			05:51			05:30	05:51	06:37			07:25	08:14	08:08	08:45
	17:13	18:07	18:56	20:47			21:34			22:04	21:51	21:01			19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42			05:50			05:30	05:53	06:38			07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48			21:35			22:04	21:50	20:59			19:51	18:44	16:52	16:40
21	08:38	07:49	06:48	06:40			05:48			05:30	05:54	06:40			07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50			21:37			22:04	21:49	20:57			19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38			05:47			05:30	05:55	06:41			07:30	08:19	08:12	08:47
	17:17	18:13	19:01	20:52			21:38			22:05	21:48	20:55			19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36			05:46			05:30	05:57	06:43			07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53			21:40			22:05	21:47	20:53			19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34			05:45			05:31	05:58	06:45			07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55			21:41			22:05	21:45	20:51			19:41	18:36	16:48	16:42
25	08:34	07:41	06:39	06:32			05:43			05:31	05:59	06:46			07:35	07:24	08:17	08:48
	17:23	18:18	19:06	20:57			21:42			22:05	21:44	20:48			19:39	17:34	16:47	16:42
26	08:32	07:39	06:37	06:30			05:42			05:31	06:01	06:48			07:37	07:26	08:19	08:49
	17:24	18:20	19:07	20:58			21:43			22:05	21:43	20:46			19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28			05:41			05:32	06:02	06:49			07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00			21:45			22:05	21:41	20:44			19:35	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26			05:40			05:32	06:03	06:51			07:40	07:30	08:22	08:49
	17:28	18:23	19:11	21:01			21:46			22:05	21:40	20:42			19:32	17:28	16:44	16:44
29	08:28		07:30	06:24		06:48 (KLZ_WT23)	05:39			05:33	06:05	06:52			07:41	07:31	08:23	08:49
	17:29		20:12	21:03	1	06:49 (KLZ_WT23)	21:47			22:05	21:38	20:40			19:30	17:27	16:44	16:45
30	08:27		07:28	06:22		06:46 (KLZ_WT23)	05:38			05:33	06:06	06:54			07:43	07:33	08:25	08:50
	17:31		20:14	21:05	4	06:50 (KLZ_WT23)	21:48			22:05	21:37	20:38			19:28	17:25	16:43	16:46
31	08:26		07:26				05:37				06:08	06:56				07:35		08:50
	17:33		20:15				21:49				21:35	20:36				17:23		16:47
Potential sun hours	262	279	367	415			482			495	498	451			380	333	269	248
Total, worst case					5			85					90					
Sun reduction					0,46			0,46					0,47					
Oper. time red.					0,99			0,99					0,99					
Wind dir. red.					0,68			0,68					0,68					
Total reduction					0,31			0,31					0,31					
Total, real					2			26					28					

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Arcadis Global B.V
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Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May		June	July		August			September	October	November	December
1	08:50	08:24	07:32	07:23	06:20		05:37	05:34		06:09		06:37 (KLZ_WT23)	06:57	07:45	07:37	08:26
	16:48	17:35	18:25	20:17	21:06		21:51	22:04		21:34	12	06:49 (KLZ_WT23)	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18		05:36	05:35		06:11		06:39 (KLZ_WT23)	06:59	07:46	07:38	08:27
	16:49	17:37	18:27	20:19	21:08		21:52	22:04		21:32	10	06:49 (KLZ_WT23)	20:31	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19	06:17		05:35	05:35		06:12		06:40 (KLZ_WT23)	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10		21:53	22:04		21:30	8	06:48 (KLZ_WT23)	20:29	19:21	17:18	16:41
4	08:49	08:19	07:26	07:17	06:15		05:34	05:36		06:14		06:41 (KLZ_WT23)	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11		21:54	22:03		21:29	5	06:46 (KLZ_WT23)	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13		05:34	05:37		06:15		06:43 (KLZ_WT23)	07:03	07:51	07:44	08:31
	16:53	17:42	18:32	20:24	21:13		21:55	22:03		21:27	2	06:45 (KLZ_WT23)	20:24	19:17	17:14	16:40
6	08:49	08:16	07:22	07:12	06:11		05:33	05:38		06:17			07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14		21:56	22:02		21:25			20:22	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10	06:09		05:32	05:38		06:18			07:07	07:54	07:47	08:34
	16:55	17:46	18:35	20:27	21:16		21:56	22:02		21:24			20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	06:32 (KLZ_WT23)	05:32	05:39		06:20			07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17	3 06:35 (KLZ_WT23)	21:57	22:01		21:22			20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:06	06:06	06:31 (KLZ_WT23)	05:31	05:40		06:21			07:10	07:58	07:51	08:36
	16:58	17:49	18:39	20:30	21:19	6 06:37 (KLZ_WT23)	21:58	22:00		21:20			20:15	19:08	17:08	16:39
10	08:47	08:09	07:13	07:03	06:04	06:29 (KLZ_WT23)	05:31	05:41		06:23			07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	9 06:38 (KLZ_WT23)	21:59	22:00		21:18			20:13	19:05	17:06	16:38
11	08:46	08:08	07:11	07:01	06:03	06:28 (KLZ_WT23)	05:31	05:42		06:24			07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:34	21:22	11 06:39 (KLZ_WT23)	22:00	21:59		21:16			20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	06:26 (KLZ_WT23)	05:30	05:43		06:26			07:14	08:02	07:56	08:39
	17:02	17:55	18:44	20:35	21:24	13 06:39 (KLZ_WT23)	22:00	21:58		21:14			20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00	06:25 (KLZ_WT23)	05:30	05:44		06:27			07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	15 06:40 (KLZ_WT23)	22:01	21:57		21:13			20:06	18:59	17:01	16:38
14	08:45	08:02	07:04	06:55	05:58	06:23 (KLZ_WT23)	05:30	05:45		06:29			07:18	08:06	07:59	08:41
	17:05	17:58	18:47	20:39	21:27	17 06:40 (KLZ_WT23)	22:02	21:56		21:11			20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:57	06:23 (KLZ_WT23)	05:30	05:47		06:31			07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	17 06:40 (KLZ_WT23)	22:02	21:56		21:09			20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	06:23 (KLZ_WT23)	05:30	05:48		06:32			07:21	08:09	08:03	08:43
	17:08	18:02	18:51	20:42	21:30	17 06:40 (KLZ_WT23)	22:03	21:55		21:07			20:00	18:53	16:57	16:38
17	08:42	07:57	06:57	06:48	05:54	06:23 (KLZ_WT23)	05:30	05:49		06:34			07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43	21:31	16 06:39 (KLZ_WT23)	22:03	21:54		21:05			19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	06:24 (KLZ_WT23)	05:30	05:50		06:35			07:24	08:13	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	15 06:39 (KLZ_WT23)	22:03	21:53		21:03			19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	06:24 (KLZ_WT23)	05:30	05:51		06:37			07:25	08:14	08:08	08:45
	17:13	18:07	18:56	20:47	21:34	15 06:39 (KLZ_WT23)	22:04	21:51		21:01			19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42	05:49	06:25 (KLZ_WT23)	05:30	05:53	06:39 (KLZ_WT23)	06:38			07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	14 06:39 (KLZ_WT23)	22:04	21:50	6 06:45 (KLZ_WT23)	20:59			19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	06:26 (KLZ_WT23)	05:30	05:54	06:37 (KLZ_WT23)	06:40			07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	12 06:38 (KLZ_WT23)	22:04	21:49	10 06:47 (KLZ_WT23)	20:57			19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	06:26 (KLZ_WT23)	05:30	05:55	06:36 (KLZ_WT23)	06:41			07:30	08:19	08:12	08:47
	17:17	18:12	19:01	20:52	21:38	11 06:37 (KLZ_WT23)	22:05	21:48	12 06:48 (KLZ_WT23)	20:55			19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	06:27 (KLZ_WT23)	05:30	05:56	06:35 (KLZ_WT23)	06:43			07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	9 06:36 (KLZ_WT23)	22:05	21:47	13 06:48 (KLZ_WT23)	20:53			19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	06:29 (KLZ_WT23)	05:31	05:58	06:35 (KLZ_WT23)	06:45			07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	5 06:34 (KLZ_WT23)	22:05	21:45	15 06:50 (KLZ_WT23)	20:50			19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43		05:31	05:59	06:34 (KLZ_WT23)	06:46			07:35	07:24	08:17	08:48
	17:22	18:18	19:06	20:57	21:42		22:05	21:44	16 06:50 (KLZ_WT23)	20:48			19:39	17:34	16:47	16:42
26	08:32	07:39	06:37	06:30	05:42		05:31	06:01	06:34 (KLZ_WT23)	06:48			07:37	07:26	08:19	08:49
	17:24	18:20	19:07	20:58	21:43		22:05	21:43	16 06:50 (KLZ_WT23)	20:46			19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41		05:32	06:02	06:33 (KLZ_WT23)	06:49			07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45		22:05	21:41	17 06:50 (KLZ_WT23)	20:44			19:35	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26	05:40		05:32	06:03	06:34 (KLZ_WT23)	06:51			07:40	07:30	08:22	08:49
	17:28	18:23	19:10	21:01	21:46		22:05	21:40	17 06:51 (KLZ_WT23)	20:42			19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39		05:33	06:05	06:34 (KLZ_WT23)	06:52			07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47		22:05	21:38	16 06:50 (KLZ_WT23)	20:40			19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38		05:33	06:06	06:35 (KLZ_WT23)	06:54			07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48		22:04	21:37	16 06:51 (KLZ_WT23)	20:38			19:28	17:25	16:43	16:46
31	08:26		07:26		05:37			06:08	06:36 (KLZ_WT23)	06:56				07:35		08:50
	17:33		20:15		21:49			21:35	14 06:50 (KLZ_WT23)	20:35				17:23		16:47
Potential sun hours	262	279	367	415	482		495	498		451			380	333	269	248
Total, worst case					205			168		37						
Sun reduction					0,46			0,45		0,47						
Oper. time red.					0,99			0,99		0,99						
Wind dir. red.					0,69			0,69		0,69						
Total reduction					0,31			0,31		0,32						
Total, real					64			51		12						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Stukwerkers - Project
Assumptions for shadow calculations

Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May			June			July			August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20			05:37			06:20 (KLZ_WT23)	05:34			06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06			21:51	14		06:34 (KLZ_WT23)	22:04			21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18			05:36			06:22 (KLZ_WT23)	05:35			06:11	06:59	07:46	07:38	08:27
	16:49	17:37	18:27	20:19	21:08			21:52	13		06:35 (KLZ_WT23)	22:04			21:32	20:31	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19	06:17			05:35			06:22 (KLZ_WT23)	05:35			06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10			21:53	12		06:34 (KLZ_WT23)	22:04			21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15			05:34			06:23 (KLZ_WT23)	05:36			06:14	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11			21:54	10		06:33 (KLZ_WT23)	22:03			21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13			05:34			06:24 (KLZ_WT23)	05:37			06:15	07:03	07:51	07:44	08:31
	16:53	17:42	18:32	20:24	21:13			21:55	8		06:32 (KLZ_WT23)	22:03			21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11			05:33			06:25 (KLZ_WT23)	05:38		06:32 (KLZ_WT23)	06:17	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14			21:56	6		06:31 (KLZ_WT23)	22:02	5	06:37 (KLZ_WT23)	21:25	20:22	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10	06:09			05:32			06:28 (KLZ_WT23)	05:38		06:31 (KLZ_WT23)	06:18	07:07	07:54	07:47	08:34
	16:55	17:46	18:35	20:27	21:16			21:56	1		06:29 (KLZ_WT23)	22:02	7	06:38 (KLZ_WT23)	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08			05:32				05:39		06:30 (KLZ_WT23)	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17			21:57				22:01	10	06:40 (KLZ_WT23)	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:06	06:06			05:31				05:40		06:30 (KLZ_WT23)	06:21	07:10	07:58	07:50	08:36
	16:58	17:49	18:39	20:30	21:19			21:58				22:00	11	06:41 (KLZ_WT23)	21:20	20:15	19:08	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04			05:31				05:41		06:29 (KLZ_WT23)	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21			21:59				22:00	13	06:42 (KLZ_WT23)	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:11	07:01	06:03			05:31				05:42		06:29 (KLZ_WT23)	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:34	21:22			22:00				21:59	13	06:42 (KLZ_WT23)	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01			05:30				05:43		06:29 (KLZ_WT23)	06:26	07:14	08:02	07:56	08:39
	17:02	17:55	18:44	20:35	21:24			22:00				21:58	14	06:43 (KLZ_WT23)	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00		06:25 (KLZ_WT23)	05:30				05:44		06:28 (KLZ_WT23)	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	5	06:30 (KLZ_WT23)	22:01				21:57	16	06:44 (KLZ_WT23)	21:13	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58		06:23 (KLZ_WT23)	05:30				05:45		06:28 (KLZ_WT23)	06:29	07:18	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	8	06:31 (KLZ_WT23)	22:02				21:56	16	06:44 (KLZ_WT23)	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:56		06:22 (KLZ_WT23)	05:30				05:47		06:28 (KLZ_WT23)	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	11	06:33 (KLZ_WT23)	22:02				21:56	17	06:45 (KLZ_WT23)	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55		06:21 (KLZ_WT23)	05:30				05:48		06:27 (KLZ_WT23)	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	13	06:34 (KLZ_WT23)	22:03				21:55	18	06:45 (KLZ_WT23)	21:07	20:00	18:53	16:57	16:38
17	08:42	07:57	06:57	06:48	05:54		06:19 (KLZ_WT23)	05:30				05:49		06:27 (KLZ_WT23)	06:34	07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43	21:31	15	06:34 (KLZ_WT23)	22:03				21:54	19	06:46 (KLZ_WT23)	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52		06:18 (KLZ_WT23)	05:30				05:50		06:27 (KLZ_WT23)	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	17	06:35 (KLZ_WT23)	22:03				21:52	19	06:46 (KLZ_WT23)	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51		06:18 (KLZ_WT23)	05:30				05:51		06:27 (KLZ_WT23)	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:56	20:47	21:34	18	06:36 (KLZ_WT23)	22:04				21:51	19	06:46 (KLZ_WT23)	21:01	19:53	18:46	16:53	16:39
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	17:14	18:09	18:57	20:48	21:35	18	06:36 (KLZ_WT23)	22:04				21:50	20	06:47 (KLZ_WT23)	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48		06:18 (KLZ_WT23)	05:30				05:54		06:27 (KLZ_WT23)	06:40	07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	19	06:37 (KLZ_WT23)	22:04				21:49	20	06:47 (KLZ_WT23)	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47		06:17 (KLZ_WT23)	05:30				05:55		06:27 (KLZ_WT23)	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:01	20:52	21:38	19	06:36 (KLZ_WT23)	22:05				21:48	19	06:46 (KLZ_WT23)	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46		06:17 (KLZ_WT23)	05:30				05:56		06:27 (KLZ_WT23)	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	19	06:36 (KLZ_WT23)	22:05				21:47	19	06:46 (KLZ_WT23)	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44		06:17 (KLZ_WT23)	05:31				05:58		06:28 (KLZ_WT23)	06:45	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	19	06:36 (KLZ_WT23)	22:05				21:45	19	06:47 (KLZ_WT23)	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43		06:17 (KLZ_WT23)	05:31				05:59		06:28 (KLZ_WT23)	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:57	21:42	19	06:36 (KLZ_WT23)	22:05				21:44	18	06:46 (KLZ_WT23)	20:48	19:39	17:34	16:47	16:42
26	08:32	07:39	06:37	06:30	05:42		06:17 (KLZ_WT23)	05:31				06:01		06:29 (KLZ_WT23)	06:48	07:36	07:26	08:19	08:49
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27	08:31	07:36	06:35	06:28	05:41		06:18 (KLZ_WT23)	05:32				06:02		06:30 (KLZ_WT23)	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	18	06:36 (KLZ_WT23)	22:05				21:41	15	06:45 (KLZ_WT23)	20:44	19:35	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40		06:18 (KLZ_WT23)	05:32				06:03		06:32 (KLZ_WT23)	06:51	07:40	07:30	08:22	08:49
	17:28	18:23	19:10	21:01	21:46	18	06:36 (KLZ_WT23)	22:05				21:40	12	06:44 (KLZ_WT23)	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39		06:19 (KLZ_WT23)	05:33				06:05		06:33 (KLZ_WT23)	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	17	06:36 (KLZ_WT23)	22:05				21:38	10	06:43 (KLZ_WT23)	20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38		06:20 (KLZ_WT23)	05:33				06:06		06:34 (KLZ_WT23)	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	16	06:36 (KLZ_WT23)	22:04				21:37	7	06:41 (KLZ_WT23)	20:38	19:28	17:25	16:43	16:46
31	08:26		07:26		05:37		06:20 (KLZ_WT23)					06:08		06:36 (KLZ_WT23)	06:56		07:35		08:50
	17:33		20:15		21:49	15	06:35 (KLZ_WT23)					21:35	3	06:39 (KLZ_WT23)	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482			495				498			451	380	333	269	248
Total, worst case						303			64				375						
Sun reduction						0,46			0,44				0,45						
Oper. time red.						0,99			0,99				0,99						
Wind dir. red.						0,70			0,70				0,70						
Total reduction						0,31			0,31				0,31						
Total, real						95			20				116						

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

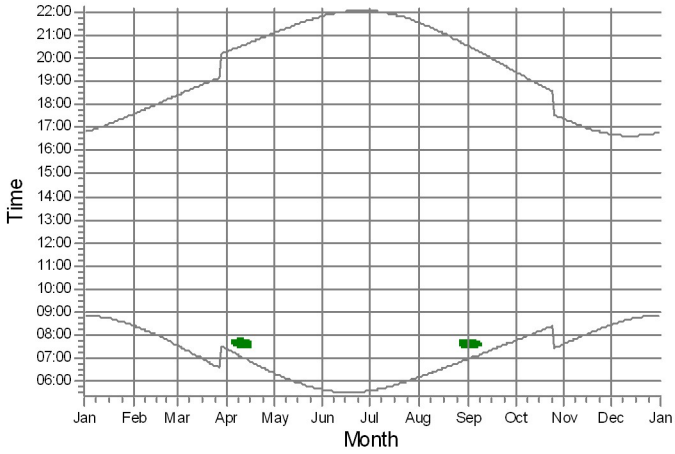
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

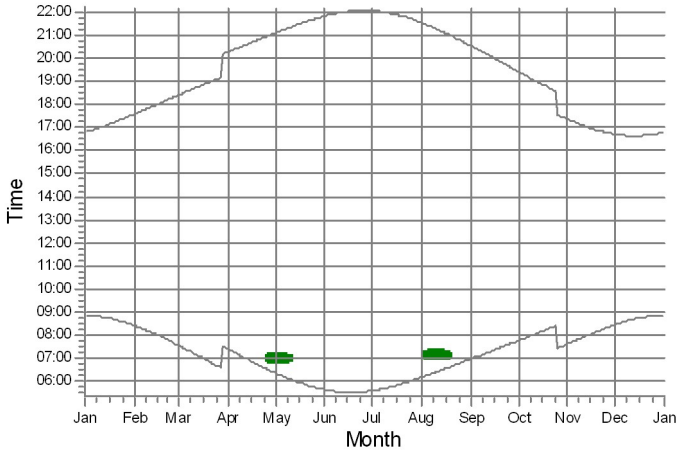
SHADOW - Calendar, graphical

Calculation: Slagschaduw - Windpark Stukwerkers - Project

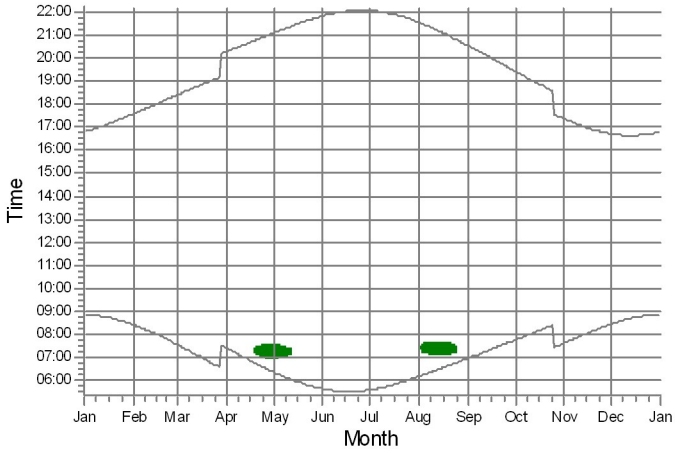
1: Hoogstraat 54, 9940 Evergem



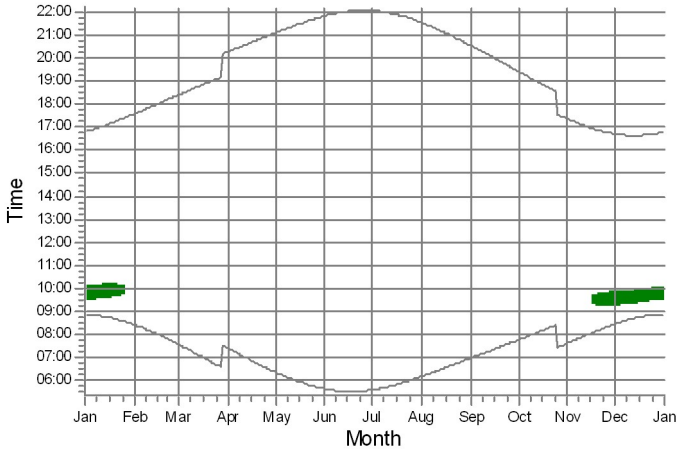
2: Pachtgoederen 2, 9940 Evergem



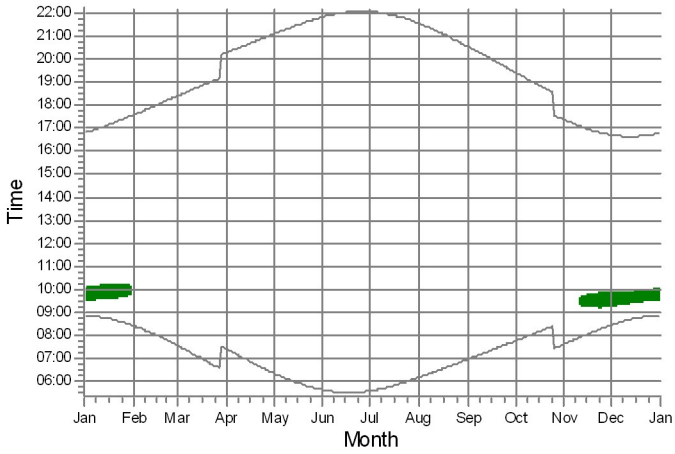
3: Pachtgoederen 2, 9940 Evergem



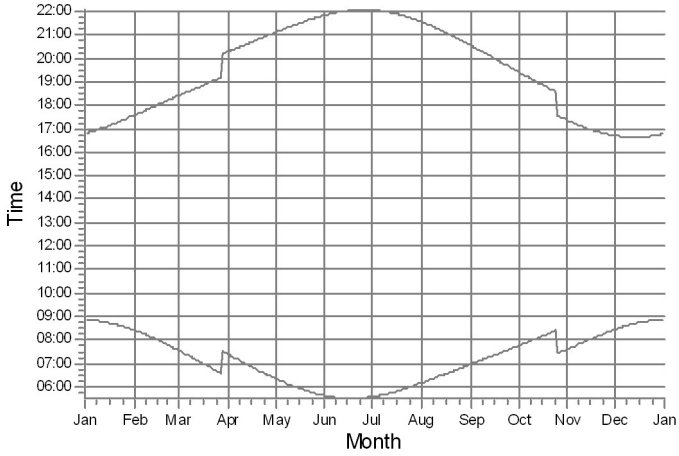
4: Ooievaarstraat 7, 9940 Evergem



5: Speidamstraat 58, 9940 Evergem



6: Rimew egel 46, 9940 Evergem



WTGs

KLZ_WT23: KLZ_WT23 Stukwerkers

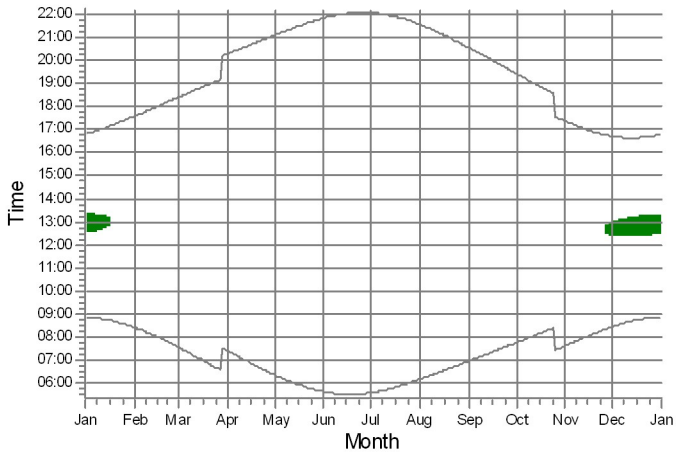
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Calculated:
08/04/2026 21:00/4.1.264

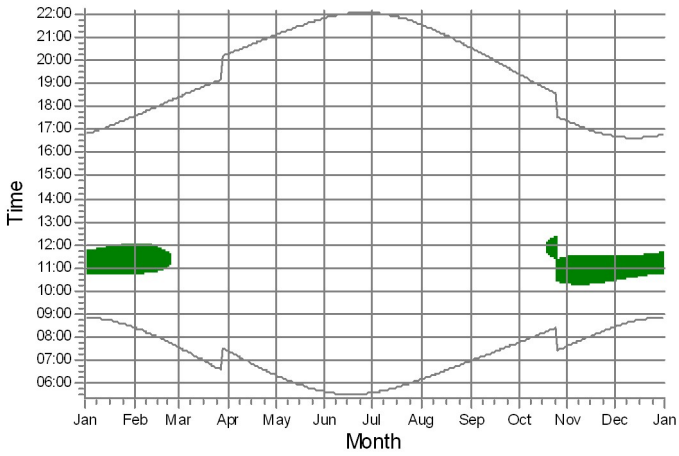
SHADOW - Calendar, graphical

Calculation: Slagschaduw - Windpark Stukwerkers - Project

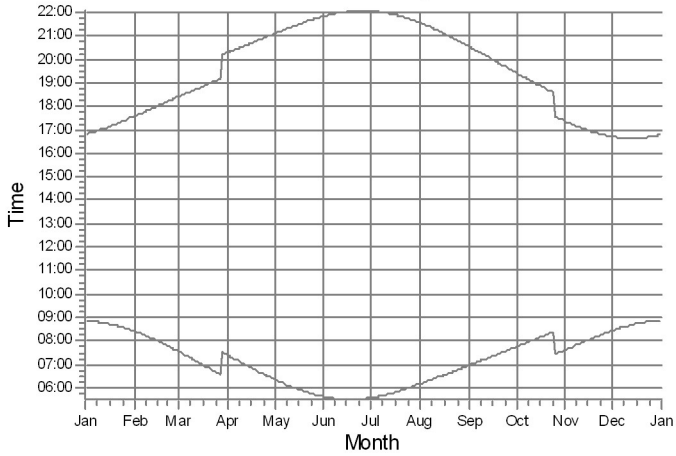
7: Christoffel Columbuslaan 23, 9042 Gent



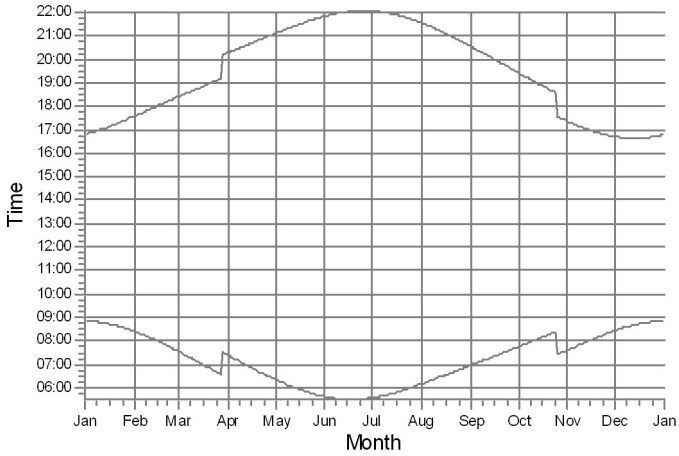
8: Christoffel Columbuslaan 23, 9042 Gent



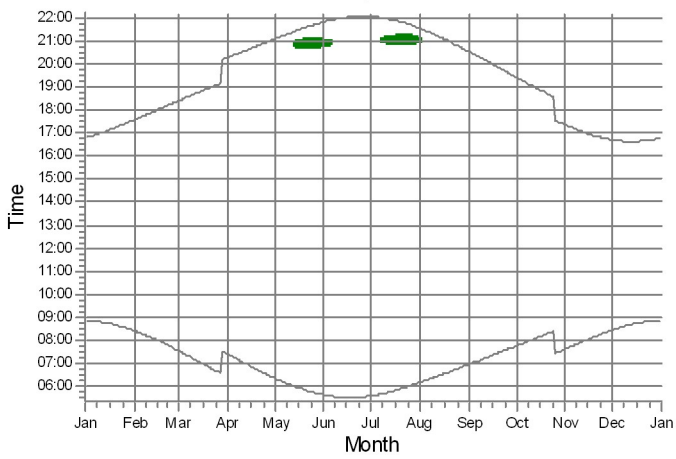
9: Willem van Rubroeckstraat 2, 9042 Gent



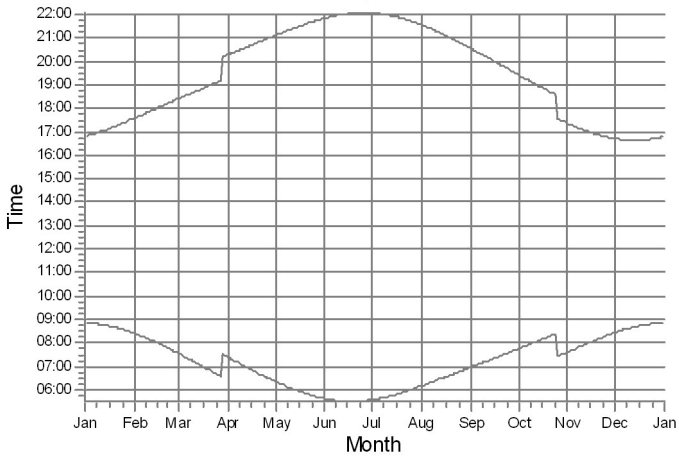
10: Arbedkaai 3, 9042 Gent



11: Schuitstraat 1, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

KLZ_WT23: KLZ_WT23 Stukwerkers

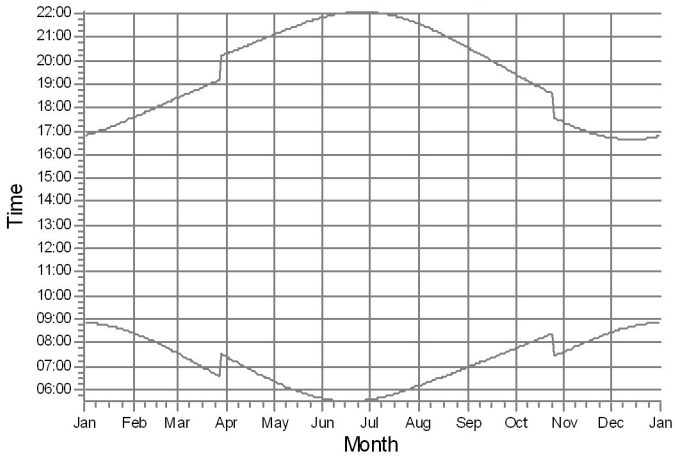
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Calculated:
08/04/2026 21:00/4.1.264

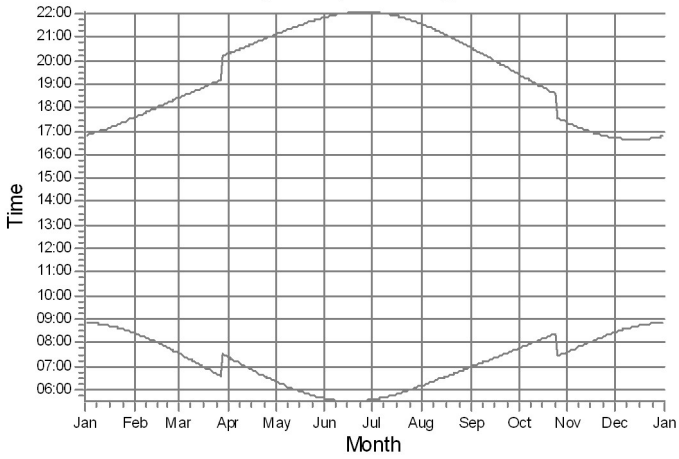
SHADOW - Calendar, graphical

Calculation: Slagschaduw - Windpark Stukwerkers - Project

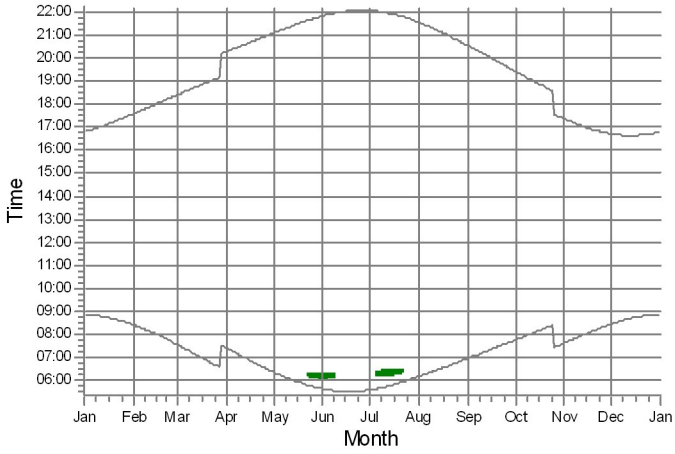
13: Doornzele Dries 107, 9940 Evergem



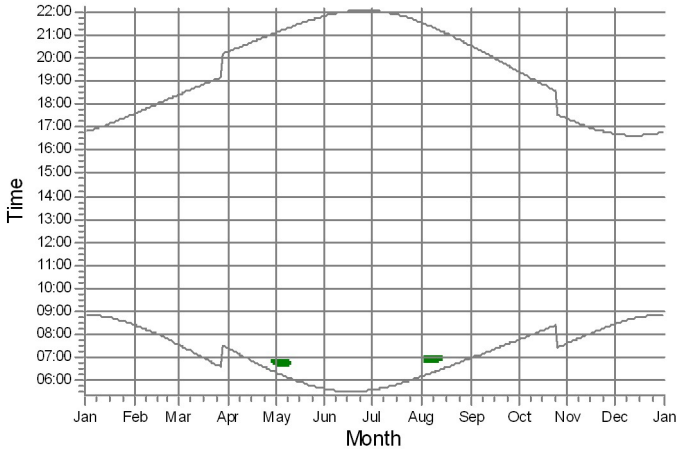
14: Abdijdreef 2, 9940 Evergem



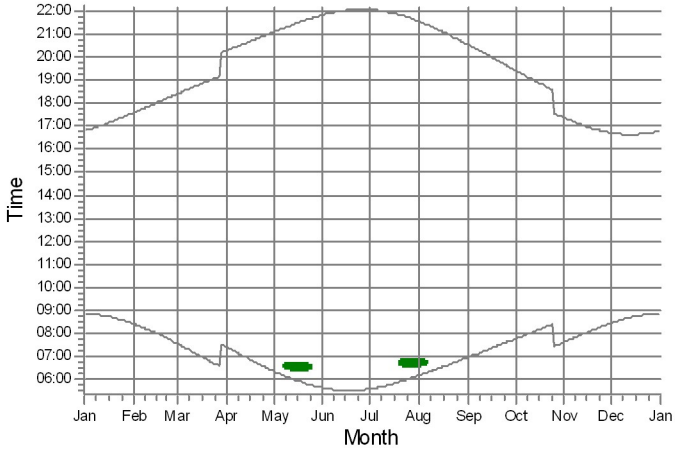
15: Hageland 41, 9940 Evergem



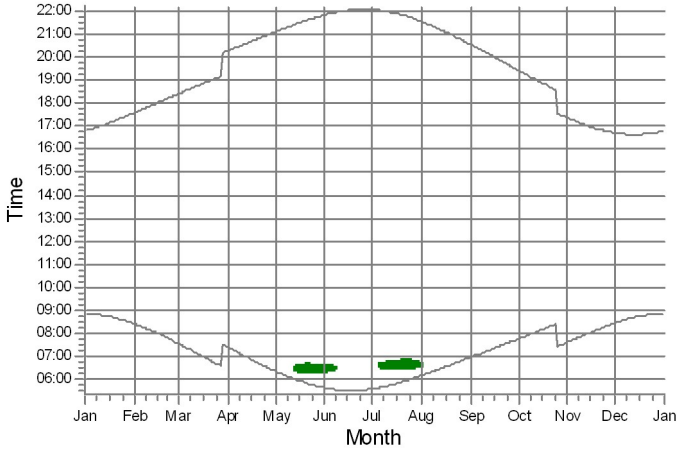
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

KLZ_WT23: KLZ_WT23 Stukwerkers

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Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw - Windpark Stukwerkers - Project

WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:49-11:38/49 09:34-09:59/25	08:24 10:50-11:58/68	07:32	07:23	06:20 06:44-07:27/43	05:36 06:20-06:34/14 20:49-21:01/12
	16:48 12:35-13:14/39	17:35	18:25	20:17	21:06	21:50 06:04-06:15/11
2	08:49 10:49-11:39/50 09:35-10:00/25	08:22 10:49-11:58/69	07:30	07:21	06:18 06:42-07:27/45	05:36 06:22-06:35/13 20:50-21:00/10
	16:49 12:36-13:15/39	17:36	18:26	20:19	21:08	21:52 06:06-06:16/10
3	08:49 10:50-11:40/50 09:35-10:01/26	08:21 10:49-11:58/69	07:28	07:19	06:16 06:41-07:27/46	05:35 06:22-06:34/12 20:51-21:00/9
	16:50 12:37-13:15/38	17:38	18:28	20:20	21:09	21:53 06:06-06:15/9
4	08:49 10:49-11:41/52 09:35-10:01/26	08:19 10:50-11:58/68	07:26	07:16	06:15 06:39-07:26/47	05:34 06:23-06:33/10 20:52-20:59/7
	16:51 12:37-13:14/37	17:40	18:30	20:22	21:11	21:54 06:07-06:15/8
5	08:49 10:49-11:42/53 09:36-10:02/26	08:18 10:50-11:58/68	07:24	07:14 07:37-07:44/7	06:13 06:37-07:25/48	05:33 06:24-06:32/8 20:54-20:58/4
	16:52 12:38-13:15/37	17:42	18:32	20:24	21:13	21:55 06:07-06:14/7
6	08:49 10:49-11:42/53 09:35-10:02/27	08:16 10:50-11:57/67	07:21	07:12 07:34-07:45/11	06:11 06:38-07:25/47	05:33 06:25-06:31/6
	16:54 12:39-13:14/35	17:44	18:33	20:25	21:14	21:56 06:09-06:14/5
7	08:48 10:49-11:43/54 09:36-10:03/27	08:14 10:51-11:57/66	07:19	07:10 07:32-07:46/14	06:09 06:38-06:49/11	05:32 06:28-06:29/1
	16:55 12:40-13:14/34	17:45	18:35	20:27	21:16 06:50-07:23/33	21:56 06:09-06:13/4
8	08:48 10:49-11:44/55 09:36-10:04/28	08:13 10:52-11:57/65	07:17	07:08 07:30-07:46/16	06:08 06:32-06:35/3 06:50-07:21/31	05:32
	16:56 12:41-13:14/33	17:47	18:37	20:29	21:17 06:39-06:47/8	21:57
9	08:47 10:49-11:45/56 09:37-10:05/28	08:11 10:52-11:56/64	07:15	07:05 07:29-07:47/18	06:06 06:31-06:37/6 07:07-07:20/13	05:31
	16:57 12:43-13:14/31	17:49	18:38	20:30	21:19 06:42-06:46/4 06:52-07:05/13	21:58
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	16:59 12:44-13:13/29	17:51	18:40	20:32	21:21 07:09-07:17/8	21:59
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	17:00 12:45-13:12/27	17:53	18:42	20:33	21:22 06:56-07:00/4	22:00
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	17:02 12:47-13:12/25	17:54	18:44	20:35	21:24	22:00
13	08:45 10:49-11:49/60 09:37-10:07/30	08:04 10:54-11:53/59	07:06	06:57 07:29-07:44/15	05:59 06:25-06:40/15	05:30
	17:03 12:49-13:11/22	17:56	18:45	20:37	21:25 20:50-20:56/6	22:01
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	17:08 09:38-10:08/30	18:02	18:50	20:42	21:30 20:46-20:59/13	22:03
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	17:11 09:39-10:09/30	18:05	18:54	20:45	21:33 20:45-21:02/17	22:03
19	08:40 10:49-11:53/64	07:53 11:02-11:42/40	06:53	06:44	05:51 06:18-06:39/21	05:29
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	17:22 09:43-10:08/25	18:18	19:05	20:56	21:42 06:10-06:15/5	22:05
26	08:32 10:49-11:57/68	07:38	06:37	06:30 06:53-07:28/35	05:42 06:17-06:36/19 20:45-21:03/18	05:31
	17:24 09:44-10:08/24	18:19	19:07	20:58	21:43 06:09-06:15/6	22:05
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	17:26 09:45-10:06/21	18:21	19:09	21:00	21:45 06:08-06:16/8	22:05
28	08:30 10:49-11:57/68	07:34	06:32	06:26 06:51-07:28/37	05:40 06:18-06:36/18 20:46-21:03/17	05:32
	17:28 09:47-10:06/19	18:23	19:10	21:01	21:46 06:08-06:16/8	22:05
29	08:28 10:48-11:57/69		07:30	06:24 06:48-06:49/1	05:39 06:19-06:36/17 20:47-21:02/15	05:33
	17:29 09:48-10:04/16		20:12	21:03 06:50-07:28/38	21:47 06:07-06:16/9	22:05
30	08:27 10:49-11:58/69		07:28	06:22 06:46-07:28/42	05:38 06:20-06:36/16 20:48-21:03/15	05:33
	17:31 09:51-10:02/11		20:14	21:05	21:48 06:06-06:16/10	22:04
31	08:25 10:49-11:58/69		07:25		05:37 06:20-06:35/15 20:48-21:02/14	
	17:33		20:15		21:49 06:05-06:16/11	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	3137	1228	0	462	1167	160

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Arcadis Global B.V
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Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw - Windpark Stukwerkers - Project

WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	605	506	380	360	719	1.332	1.587	899	649	570	8.672

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 06:37-06:49/12 21:34	06:57 07:28-07:45/17 20:33	07:44 19:25	07:36 10:22-11:25/63 17:21	08:26 10:31-11:29/58 09:18-09:48/30 16:42 12:27-12:54/27
2	05:34 22:04	06:10 06:39-06:49/10 07:05-07:12/7 21:32 07:23-07:25/2	06:59 07:27-07:45/18 20:31	07:46 19:23	07:38 10:22-11:26/64 17:19	08:27 10:32-11:29/57 09:19-09:48/29 16:41 12:27-12:56/29
3	05:35 22:03	06:12 06:40-06:48/8 07:02-07:14/12 21:30 07:18-07:29/11	07:00 07:27-07:45/18 20:29	07:48 19:21	07:40 10:21-11:26/65 17:17	08:29 10:32-11:28/56 09:20-09:48/28 16:41 12:26-12:57/31
4	05:36 22:03	06:13 06:41-06:46/5 07:16-07:30/14 21:29 06:51-06:57/6 07:01-07:15/14	07:02 07:27-07:43/16 20:27	07:49 19:19	07:42 10:20-11:27/67 17:16	08:30 10:34-11:29/55 09:21-09:49/28 16:40 12:26-12:59/33
5	05:37 06:17-06:18/1 22:03	06:15 06:43-06:45/2 07:00-07:32/32 21:27 06:49-06:58/9	07:03 07:29-07:43/14 20:24	07:51 19:16	07:43 10:20-11:27/67 17:14	08:31 10:34-11:29/55 09:21-09:49/28 16:40 12:25-12:59/34
6	05:37 06:32-06:37/5 22:02 06:14-06:19/5	06:16 06:48-07:33/45 21:25	07:05 07:30-07:41/11 20:22	07:52 19:14	07:45 10:20-11:28/68 17:12	08:33 10:35-11:28/53 09:21-09:48/27 16:39 12:25-13:00/35
7	05:38 06:31-06:38/7 22:02 06:14-06:20/6	06:18 06:47-07:34/47 21:23	07:06 07:32-07:40/8 20:20	07:54 19:12	07:47 10:20-11:28/68 17:11	08:34 10:36-11:29/53 09:23-09:49/26 16:39 12:25-13:02/37
8	05:39 06:30-06:40/10 21:00-21:06/6 22:01 06:14-06:21/7	06:20 06:47-07:35/48 21:22	07:08 07:33-07:35/2 20:18	07:56 19:10	07:49 10:20-11:28/68 17:09	08:35 10:37-11:29/52 09:23-09:49/26 16:39 12:25-13:02/37
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13	05:44 06:28-06:44/16 20:57-21:11/14 21:57 06:14-06:24/10	06:27 06:54-07:36/42 21:12	07:16 20:06	08:04 18:59	07:57 10:20-11:29/69 17:01 09:20-09:36/16	08:40 10:40-11:29/49 09:25-09:50/25 16:38 12:25-13:06/41
14	05:45 06:28-06:44/16 20:56-21:11/15 21:56 06:15-06:25/10	06:29 06:58-07:36/38 21:11	07:17 20:04	08:06 18:57	07:59 10:21-11:29/68 17:00 09:19-09:38/19	08:41 10:41-11:29/48 09:26-09:51/25 16:38 12:25-13:06/41
15	05:46 06:28-06:45/17 20:56-21:12/16 21:55 06:16-06:25/9	06:30 06:58-07:35/37 21:09	07:19 20:02	08:07 18:55	08:01 10:21-11:29/68 16:59 09:18-09:39/21	08:42 10:42-11:29/47 09:27-09:51/24 16:38 12:26-13:07/41
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Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	894	819	104	581	2545	3509

Table layout: For each day in each month the following matrix apply

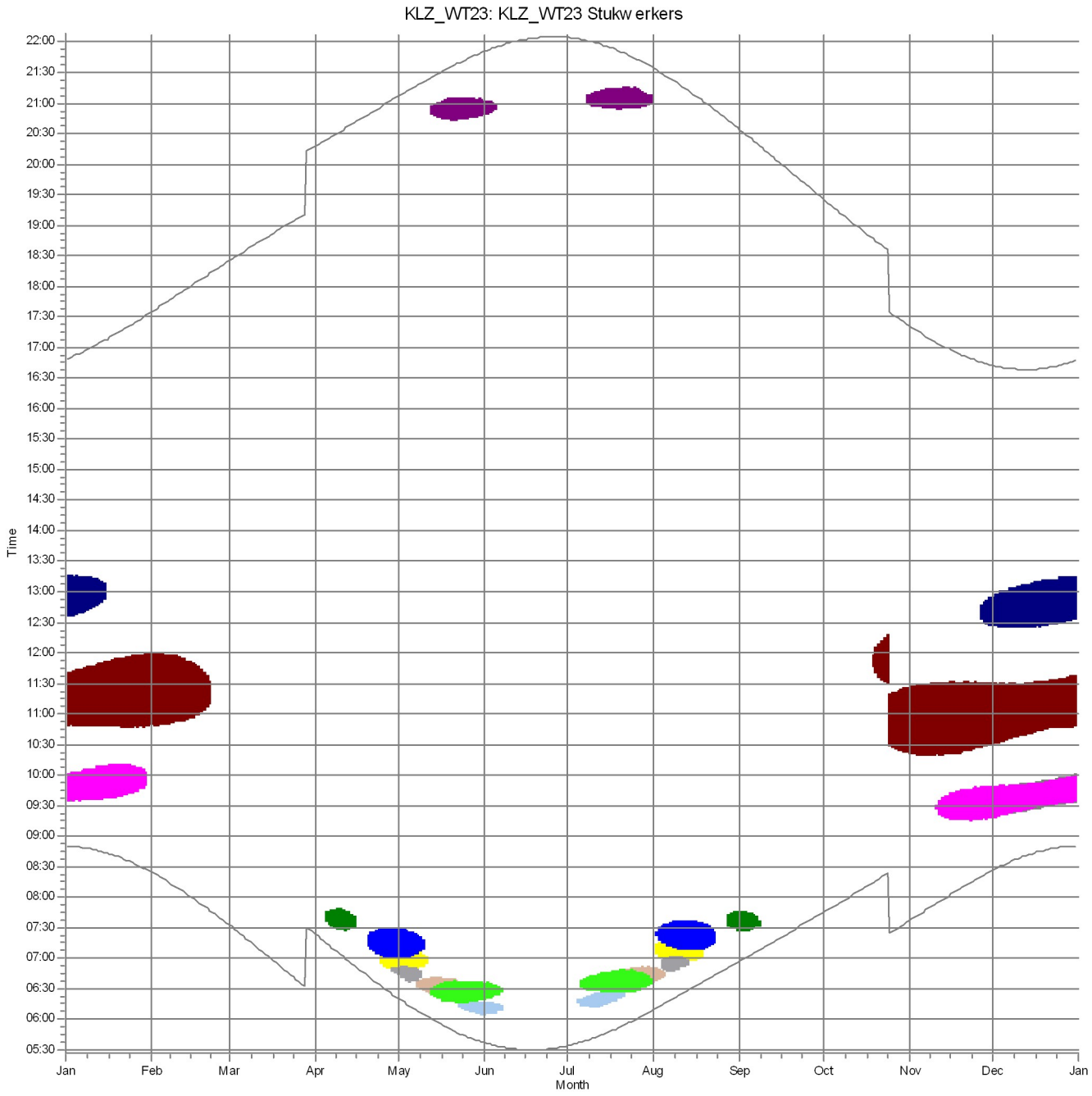
Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw - Windpark Stukwerkers - Project WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers



Shadow receptors

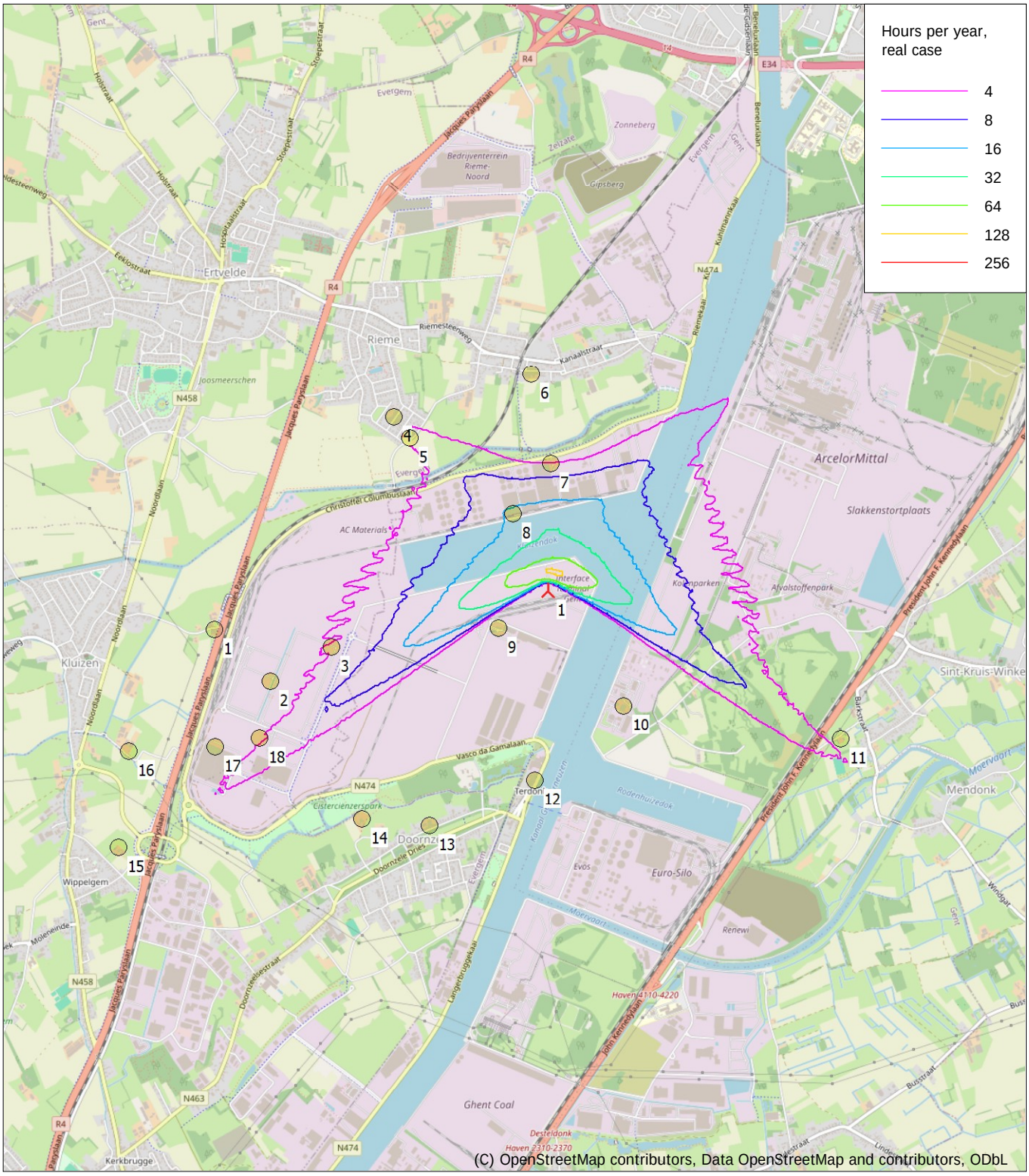
- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

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Calculated:
08/04/2026 21:00/4.1.264

SHADOW - Map

Calculation: Slagschaduw - Windpark Stukwerkers - Project



0 500 1000 1500 2000 m

Map: EMD OpenStreetMap , Print scale 1:40.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 108.493 North: 205.620

New WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

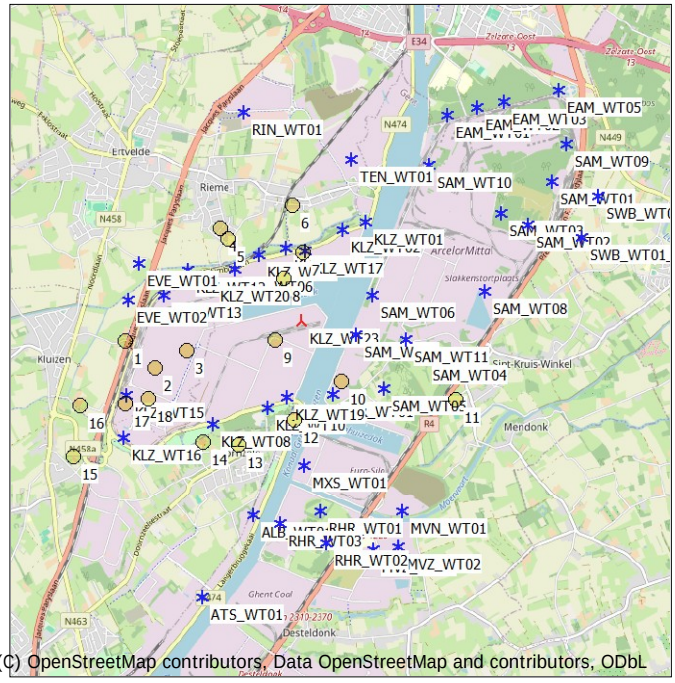
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

Scale 1:100.000

New WTG | Existing WTG | Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EAM_WT01	110.746	208.330	9,8	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT02	111.134	208.423	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT03	111.493	208.509	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT05	112.214	208.658	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT19	108.589	204.627	5,0	VESTAS V168 - FICTIE...	Yes	VESTAS	V168 - FICTIEF-5.600	5.600	168,0	166,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT23	108.781	205.627	9,7	KLZ_WT23 Stukwerkers	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RIN_WT01	108.045	208.389	10,0	Siemens SWT-3.2-101 ...	Yes	Siemens	SWT-3.2-101-3.200	3.200	101,0	127,5	100.000	16,0
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2

To be continued on next page...

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	Ooievaarstraat 7, 9940 Evergem	107.712	206.856	6,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Speidamstraat 58, 9940 Evergem	107.822	206.713	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Rimewegel 46, 9940 Evergem	108.680	207.151	7,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Schuitstraat 1, 9042 Gent	110.830	204.575	6,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 41, 9940 Evergem	105.749	203.857	8,6	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	26:30	187	0:20	6:19
2	Pachtgoederen 2, 9940 Evergem	91:22	226	0:54	18:13
3	Pachtgoederen 2, 9940 Evergem	61:04	212	0:40	13:09
4	Ooievaarstraat 7, 9940 Evergem	178:33	265	2:02	31:51
5	Speidamstraat 58, 9940 Evergem	295:28	295	2:35	53:23
6	Rimewegel 46, 9940 Evergem	149:10	271	2:06	25:03
7	Christoffel Columbuslaan 23, 9042 Gent	211:04	319	1:37	46:19
8	Christoffel Columbuslaan 23, 9042 Gent	226:26	281	1:45	41:52
9	Willem van Rubroeckstraat 2, 9042 Gent	141:15	318	0:51	29:05
10	Arbedkaai 3, 9042 Gent	428:04	226	3:57	123:44
11	Schuitstraat 1, 9042 Gent	62:52	223	0:35	15:32
12	Terdonkkaai 8, 9042 Gent	67:31	187	0:43	16:58
13	Doornzele Dries 107, 9940 Evergem	93:17	270	0:38	21:08
14	Abdijdreef 2, 9940 Evergem	127:55	300	1:04	29:17
15	Hageland 41, 9940 Evergem	56:38	173	0:40	15:59
16	Molendreef 5, 9940 Evergem	68:19	171	0:52	16:09
17	Amerigo Vespuccistraat 2A, 9940 Evergem	60:13	199	0:50	11:09
18	Pachtgoederen 1, 9940 Evergem	249:05	304	1:39	59:30

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:40	2:20
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	4:26	0:31
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	370:29	105:44
EAM_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)	4:47	1:28
EAM_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)	1:38	0:30
EAM_WT03	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)	0:39	0:11
EAM_WT05	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)	0:00	0:00
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	29:05	6:50
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:11	4:09
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	23:51	6:45
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	19:04	4:28
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	86:42	20:31
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	61:36	12:32
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	77:09	14:14
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	29:37	5:09
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	55:26	13:58
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	84:42	16:15
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	36:24	6:48
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	287:31	71:08
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	161:20	33:12
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	86:39	15:15
KLZ_WT19	VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)	159:12	36:26
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	183:05	35:19
KLZ_WT23	KLZ_WT23 Stukwerkers	243:26	44:58
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:27	2:37
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	20:22	3:50
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	26:36	3:59
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	20:10	2:32
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	30:17	3:50
RIN_WT01	Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)	0:00	0:00
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:19	0:05
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:12	0:19
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	3:00	0:50
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	40:04	10:12
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	118:12	28:20
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	92:28	19:37
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	76:53	16:14
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	15:14	4:18
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:48	0:14
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	11:01	3:19
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	48:19	11:38
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:09	0:20
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:10	0:02
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	25:01	7:40

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24			07:32		07:58 (KLZ_WT19)	07:23		07:48 (SAM_WT07)	06:20			05:36		06:04 (KLZ_WT05)
	16:48	5	09:25 (KLZ_WT08)	17:35			18:25	16	08:14 (KLZ_WT19)	20:17	6	07:54 (SAM_WT07)	21:06			21:51	2	06:06 (KLZ_WT05)
2	08:50		09:20 (KLZ_WT08)	08:23		08:48 (MVN_WT01)	07:30		07:53 (CBR_WT01)	07:21			06:18			05:36		06:04 (KLZ_WT05)
	16:49	6	09:26 (KLZ_WT08)	17:37	1	08:49 (MVN_WT01)	18:27	15	08:13 (KLZ_WT19)	20:19			21:08			21:52	3	06:07 (KLZ_WT05)
3	08:49		09:20 (KLZ_WT08)	08:21		08:46 (MVN_WT01)	07:28		07:51 (CBR_WT01)	07:19			06:17			05:35		06:03 (KLZ_WT05)
	16:50	7	09:27 (KLZ_WT08)	17:38	2	08:48 (MVN_WT01)	18:28	16	08:12 (KLZ_WT19)	20:20			21:10			21:53	3	06:06 (KLZ_WT05)
4	08:49		09:19 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (CBR_WT01)	07:17			06:15			05:34		06:02 (KLZ_WT05)
	16:51	7	09:26 (KLZ_WT08)	17:40	1	08:46 (MVN_WT01)	18:30	14	08:10 (KLZ_WT19)	20:22			21:11			21:54	4	06:06 (KLZ_WT05)
5	08:49		09:19 (KLZ_WT08)	08:18			07:24		07:47 (CBR_WT01)	07:14		07:37 (KLZ_WT23)	06:13			05:34		06:02 (KLZ_WT05)
	16:53	8	09:27 (KLZ_WT08)	17:42			18:32	8	07:55 (CBR_WT01)	20:24	7	07:44 (KLZ_WT23)	21:13			21:55	5	06:07 (KLZ_WT20)
6	08:49		09:18 (KLZ_WT08)	08:16			07:22		07:44 (CBR_WT01)	07:12		07:34 (KLZ_WT23)	06:11			05:33		06:01 (KLZ_WT05)
	16:54	9	09:27 (KLZ_WT08)	17:44			18:33	10	07:54 (CBR_WT01)	20:25	11	07:45 (KLZ_WT23)	21:14			21:56	6	06:07 (KLZ_WT20)
7	08:48		09:18 (KLZ_WT08)	08:15			07:19		07:43 (CBR_WT01)	07:10		07:32 (KLZ_WT23)	06:09			05:32		06:01 (KLZ_WT05)
	16:55	10	09:28 (KLZ_WT08)	17:46			18:35	10	07:53 (CBR_WT01)	20:27	14	07:46 (KLZ_WT23)	21:16			21:57	7	06:08 (KLZ_WT20)
8	08:48		09:17 (KLZ_WT08)	08:13			07:17		07:45 (CBR_WT01)	07:08		07:30 (KLZ_WT23)	06:08			05:32		06:01 (KLZ_WT06)
	16:56	11	09:28 (KLZ_WT08)	17:47			18:37	6	07:51 (CBR_WT01)	20:29	16	07:46 (KLZ_WT23)	21:18			21:57	9	06:10 (KLZ_WT20)
9	08:48		09:18 (KLZ_WT08)	08:11			07:15			07:06		07:29 (KLZ_WT23)	06:06			05:31		06:00 (KLZ_WT06)
	16:58	11	09:29 (KLZ_WT08)	17:49			18:39			20:30	18	07:47 (KLZ_WT23)	21:19			21:58	9	06:09 (KLZ_WT20)
10	08:47		09:18 (KLZ_WT08)	08:09			07:13		07:35 (SAM_WT05)	07:03		07:29 (KLZ_WT23)	06:04			05:31		06:00 (KLZ_WT06)
	16:59	11	09:29 (KLZ_WT08)	17:51			18:40	1	07:36 (SAM_WT05)	20:32	18	07:47 (KLZ_WT23)	21:21			21:59	10	06:10 (KLZ_WT20)
11	08:47		09:15 (RHR_WT01)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:24 (SAM_WT06)	06:03		06:28 (KLZ_WT17)	05:31		06:00 (KLZ_WT06)
	17:00	12	09:29 (KLZ_WT08)	17:53			18:42	2	07:35 (SAM_WT05)	20:34	18	07:46 (KLZ_WT23)	21:22	1	06:29 (KLZ_WT17)	22:00	11	06:11 (KLZ_WT20)
12	08:46		09:15 (RHR_WT01)	08:06			07:08			06:59		07:21 (SAM_WT06)	06:01		06:26 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:02	11	09:29 (KLZ_WT08)	17:55			18:44			20:35	20	07:45 (KLZ_WT23)	21:24	3	06:29 (KLZ_WT17)	22:00	12	06:11 (KLZ_WT20)
13	08:45		09:14 (RHR_WT01)	08:04			07:06			06:57		07:19 (SAM_WT06)	06:00		06:25 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:03	10	09:29 (KLZ_WT08)	17:56			18:45			20:37	20	07:44 (KLZ_WT23)	21:25	4	06:29 (KLZ_WT17)	22:01	12	06:11 (KLZ_WT20)
14	08:45		09:13 (RHR_WT01)	08:02		08:26 (KLZ_WT10)	07:04			06:55		07:17 (SAM_WT06)	05:58		06:23 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:05	8	09:28 (KLZ_WT08)	17:58	2	08:28 (KLZ_WT10)	18:47			20:39	18	07:42 (KLZ_WT23)	21:27	5	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
15	08:44			08:00		08:24 (KLZ_WT10)	07:02			06:53		07:15 (SAM_WT06)	05:56		06:22 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:06			18:00	3	08:27 (KLZ_WT10)	18:49			20:40	15	07:40 (KLZ_WT23)	21:28	6	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
16	08:43			07:58		08:22 (KLZ_WT10)	06:59			06:50			05:55		06:21 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:08			18:02	4	08:26 (KLZ_WT10)	18:51			20:42			21:30	7	06:28 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
17	08:42			07:57			06:57			06:48			05:54		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:09			18:04			18:52			20:43			21:31	8	06:27 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
18	08:41			07:55			06:55			06:46			05:52		06:18 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:11			18:05			18:54			20:45			21:33	8	06:26 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
19	08:40			07:53			06:53			06:44			05:51		06:17 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:12			18:07			18:56			20:47			21:34	8	06:25 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
20	08:39			07:51			06:50			06:42			05:49		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:14			18:09			18:57			20:48			21:35	5	06:24 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
21	08:38			07:49			06:48			06:40			05:48			05:30		05:59 (KLZ_WT06)
	17:16			18:11			18:59			20:50			21:37			22:04	15	06:14 (KLZ_WT20)
22	08:37			07:47		08:10 (KLZ_WT19)	06:46			06:38			05:47			05:30		06:00 (KLZ_WT06)
	17:17			18:12	2	08:12 (KLZ_WT19)	19:01			20:52			21:38			22:05	14	06:14 (KLZ_WT20)
23	08:36			07:45		08:08 (KLZ_WT19)	06:44			06:36			05:46			05:30		06:00 (KLZ_WT06)
	17:19			18:14	6	08:14 (KLZ_WT19)	19:02			20:53			21:40			22:05	14	06:14 (KLZ_WT20)
24	08:35			07:43		08:06 (KLZ_WT19)	06:41			06:34			05:44			05:31		06:00 (KLZ_WT06)
	17:21			18:16	9	08:15 (KLZ_WT19)	19:04			20:55			21:41			22:05	14	06:14 (KLZ_WT20)
25	08:34			07:41		08:04 (KLZ_WT19)	06:39			06:32			05:43			05:31		06:01 (KLZ_WT06)
	17:22			18:18	11	08:15 (KLZ_WT19)	19:06			20:57			21:42			22:05	14	06:15 (KLZ_WT20)
26	08:32			07:39		08:02 (KLZ_WT19)	06:37			06:30			05:42			05:31		06:01 (KLZ_WT06)
	17:24			18:20	14	08:16 (KLZ_WT19)	19:07			20:58			21:43			22:05	14	06:15 (KLZ_WT20)
27	08:31			07:36		08:00 (KLZ_WT19)	06:35		06:57 (SAM_WT11)	06:28			05:41			05:32		06:02 (KLZ_WT06)
	17:26			18:21	16	08:16 (KLZ_WT19)	19:09	1	06:58 (SAM_WT11)	21:00			21:45			22:05	13	06:15 (KLZ_WT20)
28	08:30			07:34		07:57 (KLZ_WT19)	06:32		06:55 (SAM_WT07)	06:26			05:40			05:32		06:02 (KLZ_WT06)
	17:28			18:23	18	08:15 (KLZ_WT19)	19:10	3	06:58 (SAM_WT07)	21:01			21:46			22:05	13	06:15 (KLZ_WT20)
29	08:28						07:30		07:52 (SAM_WT07)	06:24			05:39			05:33		06:03 (KLZ_WT06)
	17:29						20:12	5	07:57 (SAM_WT07)	21:03			21:47			22:05	13	06:16 (KLZ_WT20)
30	08:27						07:28		07:50 (SAM_WT07)	06:22			05:38			05:33		06:03 (KLZ_WT06)
	17:31						20:14	6	07:56 (SAM_WT07)	21:05			21:48			22:05	12	06:15 (KLZ_WT20)
31	08:26						07:26		07:48 (SAM_WT07)				05:37		06:05 (KLZ_WT05)			
	17:33						20:15	8	07:56 (SAM_WT07)				21:49	1	06:06 (KLZ_WT05)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		126			89			121			181			56			325	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,55			0,57			0,64			0,70			0,71	
Total reduction		0,13			0,16			0,21			0,29			0,31			0,31	
Total, real		16			14			25			52			17			100	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	18	07:45 (KLZ_WT23)	19:25			17:21			16:42	12	09:11 (KLZ_WT08)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59		07:27 (KLZ_WT23)	07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31	18	07:45 (KLZ_WT23)	19:23	2	08:13 (SAM_WT05)	17:19			16:42	11	09:12 (KLZ_WT08)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00		07:27 (KLZ_WT23)	07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29	18	07:45 (KLZ_WT23)	19:21	2	08:14 (SAM_WT05)	17:17			16:41	11	09:12 (KLZ_WT08)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02		07:27 (KLZ_WT23)	07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27	16	07:43 (KLZ_WT23)	19:19			17:16			16:40	11	09:13 (KLZ_WT08)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03		07:29 (KLZ_WT23)	07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24	14	07:43 (KLZ_WT23)	19:17	4	08:27 (CBR_WT01)	17:14			16:40	10	09:13 (KLZ_WT08)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05		07:30 (KLZ_WT23)	07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22	11	07:41 (KLZ_WT23)	19:14	8	08:28 (CBR_WT01)	17:12			16:40	9	09:13 (KLZ_WT08)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07		07:32 (KLZ_WT23)	07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20	8	07:40 (KLZ_WT23)	19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	8	09:14 (KLZ_WT08)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08		07:33 (KLZ_WT23)	07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18	2	07:35 (KLZ_WT23)	19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	8	09:15 (KLZ_WT08)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10			07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16			19:08	10	08:41 (KLZ_WT19)	17:07			16:39	7	09:15 (KLZ_WT08)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11			07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13			19:05	15	08:45 (KLZ_WT19)	17:06			16:38	6	09:15 (KLZ_WT08)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	6	07:46 (SAM_WT07)	19:03	17	08:47 (KLZ_WT19)	17:04			16:38	5	09:15 (KLZ_WT08)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02		08:32 (KLZ_WT19)	07:56			08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	8	07:47 (SAM_WT07)	19:01	16	08:48 (KLZ_WT19)	17:03			16:38	4	09:15 (KLZ_WT08)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04		08:31 (KLZ_WT19)	07:57			08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	7	07:48 (SAM_WT07)	18:59	17	08:48 (KLZ_WT19)	17:01			16:38	4	09:16 (KLZ_WT08)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06		08:31 (KLZ_WT19)	07:59			08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	5	07:47 (SAM_WT07)	18:57	17	08:48 (KLZ_WT19)	17:00			16:38	3	09:16 (KLZ_WT08)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07		08:33 (KLZ_WT19)	08:01			08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	3	07:47 (SAM_WT07)	18:55	15	08:48 (KLZ_WT19)	16:59			16:38	2	09:16 (KLZ_WT08)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09		08:35 (KLZ_WT19)	08:03			08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	1	07:46 (SAM_WT07)	18:53	13	08:48 (KLZ_WT19)	16:57			16:38	2	09:17 (KLZ_WT08)
17	05:49			06:34			07:22			08:11		08:36 (KLZ_WT19)	08:04			08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57			18:50	10	08:46 (KLZ_WT19)	16:56			16:39	1	09:17 (KLZ_WT08)
18	05:50			06:35			07:24			08:13		08:38 (KLZ_WT19)	08:06			08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55			18:48	8	08:46 (KLZ_WT19)	16:55			16:39	1	09:17 (KLZ_WT08)
19	05:51			06:37			07:25			08:14		08:40 (KLZ_WT19)	08:08			08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53			18:46	5	08:45 (KLZ_WT19)	16:53			16:39	1	09:18 (KLZ_WT08)
20	05:53			06:38			07:27			08:16			08:09			08:46		
	21:50			20:59			19:50			18:44			16:52			16:39		
21	05:54			06:40			07:29			08:18			08:11			08:47		
	21:49			20:57			19:48			18:42			16:51			16:40		
22	05:55			06:41			07:30			08:19			08:12			08:47		
	21:48			20:55			19:46			18:40			16:50			16:40		
23	05:56			06:43			07:32			08:21			08:14			08:48		
	21:47			20:53			19:44			18:38			16:49			16:41		
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16			08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48			16:41	1	09:20 (KLZ_WT08)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17			08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47			16:42	1	09:21 (KLZ_WT08)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19			08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46			16:43	1	09:21 (KLZ_WT08)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20			08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45			16:43	2	09:22 (KLZ_WT08)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	15	07:42 (KLZ_WT23)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	8	09:08 (KLZ_WT08)	16:44	2	09:22 (KLZ_WT08)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	18	07:43 (KLZ_WT23)	19:30			17:27			16:44	10	09:09 (KLZ_WT08)	16:45	3	09:23 (KLZ_WT08)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	20	07:45 (KLZ_WT23)	19:28			17:25			16:43	11	09:10 (KLZ_WT08)	16:46	3	09:23 (KLZ_WT08)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	20	07:45 (KLZ_WT23)				17:23						16:47	4	09:24 (KLZ_WT08)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		128			75			135			188			33			133	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,64			0,63			0,55			0,53			0,53	
Total reduction		0,31			0,29			0,27			0,20			0,14			0,12	
Total, real		39			22			36			37			5			15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (KLZ_WT08)	08:24		08:50 (MXS_WT01)	07:32			07:23			06:20		06:47 (SAM_WT06)	05:36
	16:48	11	09:31 (KLZ_WT08)	17:35	53	16:35 (KLZ_WT15)	18:25			20:17			21:06	22	07:09 (KLZ_WT23)	21:51
2	08:50		09:21 (KLZ_WT08)	08:23		08:48 (MXS_WT01)	07:30			07:21			06:18		06:48 (KLZ_WT23)	05:36
	16:49	11	09:32 (KLZ_WT08)	17:36	53	16:35 (KLZ_WT15)	18:27			20:19			21:08	21	07:09 (KLZ_WT23)	21:52
3	08:49		09:21 (KLZ_WT08)	08:21		15:46 (KLZ_WT15)	07:28			07:19			06:17		06:49 (KLZ_WT23)	05:35
	16:50	12	09:33 (KLZ_WT08)	17:38	49	16:35 (KLZ_WT15)	18:28			20:20			21:10	20	07:09 (KLZ_WT23)	21:53
4	08:49		09:20 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26			07:17			06:15		06:48 (KLZ_WT23)	05:34
	16:51	13	09:33 (KLZ_WT08)	17:40	50	16:36 (KLZ_WT15)	18:30			20:22			21:11	21	07:09 (KLZ_WT23)	21:54
5	08:49		09:20 (KLZ_WT08)	08:18		08:43 (MVN_WT01)	07:24		07:46 (KLZ_WT19)	07:14		07:37 (SAM_WT11)	06:13		06:48 (KLZ_WT23)	05:34
	16:53	14	09:34 (KLZ_WT08)	17:42	51	16:35 (KLZ_WT15)	18:32	4	07:50 (KLZ_WT19)	20:24	1	07:38 (SAM_WT11)	21:13	20	07:08 (KLZ_WT23)	21:55
6	08:49		09:20 (KLZ_WT08)	08:16		08:41 (MVN_WT01)	07:21		07:44 (KLZ_WT19)	07:12		07:34 (SAM_WT11)	06:11		06:49 (KLZ_WT23)	05:33
	16:54	15	09:35 (KLZ_WT08)	17:44	52	16:35 (KLZ_WT15)	18:33	9	07:53 (KLZ_WT19)	20:25	2	07:36 (SAM_WT11)	21:14	19	07:08 (KLZ_WT23)	21:56
7	08:48		09:20 (KLZ_WT08)	08:15		08:39 (MVN_WT01)	07:19		07:42 (KLZ_WT19)	07:10		07:32 (SAM_WT11)	06:09		06:50 (KLZ_WT23)	05:32
	16:55	16	09:36 (KLZ_WT08)	17:45	53	16:35 (KLZ_WT15)	18:35	13	07:55 (KLZ_WT19)	20:27	3	07:35 (SAM_WT11)	21:16	17	07:07 (KLZ_WT23)	21:56
8	08:48		09:20 (KLZ_WT08)	08:13		08:41 (MVN_WT01)	07:17		07:40 (KLZ_WT19)	07:08			06:08		06:50 (KLZ_WT23)	05:32
	16:56	16	09:36 (KLZ_WT08)	17:47	48	16:35 (KLZ_WT15)	18:37	16	07:56 (KLZ_WT19)	20:29			21:17	15	07:05 (KLZ_WT23)	21:57
9	08:48		09:17 (RHR_WT01)	08:11		15:49 (KLZ_WT15)	07:15		07:38 (KLZ_WT19)	07:06		07:28 (SAM_WT07)	06:06		06:52 (KLZ_WT23)	05:31
	16:58	17	09:37 (KLZ_WT08)	17:49	46	16:35 (KLZ_WT15)	18:39	19	07:57 (KLZ_WT19)	20:30	2	07:30 (SAM_WT07)	21:19	13	07:05 (KLZ_WT23)	21:58
10	08:47		09:16 (RHR_WT01)	08:09		15:49 (KLZ_WT15)	07:13		07:35 (KLZ_WT19)	07:03		07:26 (SAM_WT07)	06:04		06:53 (KLZ_WT23)	05:31
	16:59	29	16:08 (KLZ_WT15)	17:51	45	16:34 (KLZ_WT15)	18:40	21	07:56 (KLZ_WT19)	20:32	5	07:31 (SAM_WT07)	21:21	9	07:02 (KLZ_WT23)	21:59
11	08:46		09:15 (RHR_WT01)	08:08		15:50 (KLZ_WT15)	07:11		07:34 (KLZ_WT19)	07:01		07:24 (SAM_WT07)	06:03		06:56 (KLZ_WT23)	05:31
	17:00	35	16:11 (KLZ_WT15)	17:53	44	16:34 (KLZ_WT15)	18:42	22	07:56 (KLZ_WT19)	20:34	7	07:31 (SAM_WT07)	21:22	4	07:00 (KLZ_WT23)	22:00
12	08:46		09:15 (RHR_WT01)	08:06		15:50 (KLZ_WT15)	07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01			05:30
	17:02	40	16:14 (KLZ_WT15)	17:55	43	16:33 (KLZ_WT15)	18:44	25	07:56 (KLZ_WT19)	20:35	9	07:30 (SAM_WT07)	21:24			22:00
13	08:45		09:14 (RHR_WT01)	08:04		15:51 (KLZ_WT15)	07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00			05:30
	17:03	43	16:15 (KLZ_WT15)	17:56	41	16:32 (KLZ_WT15)	18:45	27	07:56 (KLZ_WT19)	20:37	10	07:29 (SAM_WT07)	21:25			22:01
14	08:45		09:13 (RHR_WT01)	08:02		15:52 (KLZ_WT15)	07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58			05:30
	17:05	48	16:17 (KLZ_WT15)	17:58	39	16:31 (KLZ_WT15)	18:47	28	07:54 (KLZ_WT19)	20:38	11	07:28 (SAM_WT07)	21:27			22:02
15	08:44		09:12 (RHR_WT01)	08:00		15:53 (KLZ_WT15)	07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30
	17:06	51	16:19 (KLZ_WT15)	18:00	37	16:30 (KLZ_WT15)	18:49	30	07:54 (KLZ_WT19)	20:40	8	07:26 (SAM_WT07)	21:28			22:02
16	08:43		09:11 (RHR_WT01)	07:58		15:55 (KLZ_WT15)	06:59		07:22 (CBR_WT01)	06:50			05:55			05:30
	17:08	53	16:20 (KLZ_WT15)	18:02	34	16:29 (KLZ_WT15)	18:50	30	07:52 (KLZ_WT19)	20:42			21:30			22:03
17	08:42		09:11 (RHR_WT01)	07:57		15:57 (KLZ_WT15)	06:57		07:22 (CBR_WT01)	06:48			05:54			05:30
	17:09	54	16:22 (KLZ_WT15)	18:04	30	16:27 (KLZ_WT15)	18:52	27	07:51 (KLZ_WT19)	20:43			21:31			22:03
18	08:41		09:13 (RHR_WT01)	07:55		15:59 (KLZ_WT15)	06:55		07:17 (SAM_WT05)	06:46			05:52			05:30
	17:11	51	16:23 (KLZ_WT15)	18:05	27	16:26 (KLZ_WT15)	18:54	21	07:47 (KLZ_WT19)	20:45			21:33			22:03
19	08:40		09:25 (KLZ_WT08)	07:53		16:02 (KLZ_WT15)	06:53		07:15 (SAM_WT05)	06:44			05:51			05:30
	17:12	51	16:25 (KLZ_WT15)	18:07	21	16:23 (KLZ_WT15)	18:56	13	07:32 (CBR_WT01)	20:47			21:34			22:04
20	08:39		09:26 (KLZ_WT08)	07:51		16:05 (KLZ_WT15)	06:50		07:13 (SAM_WT05)	06:42			05:49			05:30
	17:14	51	16:26 (KLZ_WT15)	18:09	15	16:20 (KLZ_WT15)	18:57	5	07:18 (SAM_WT05)	20:48			21:35			22:04
21	08:38		09:27 (KLZ_WT08)	07:49			06:48			06:40			05:48			05:30
	17:16	49	16:26 (KLZ_WT15)	18:11			18:59			20:50			21:37			22:04
22	08:37		09:29 (KLZ_WT08)	07:47		08:10 (KLZ_WT10)	06:46			06:38			05:47			05:30
	17:17	48	16:28 (KLZ_WT15)	18:12	1	08:11 (KLZ_WT10)	19:01			20:52			21:38			22:05
23	08:36		09:32 (KLZ_WT08)	07:45		08:08 (KLZ_WT10)	06:44			06:36			05:46			05:30
	17:19	44	16:29 (KLZ_WT15)	18:14	4	08:12 (KLZ_WT10)	19:02			20:53			21:40			22:05
24	08:35		15:48 (KLZ_WT15)	07:43		08:06 (KLZ_WT10)	06:41			06:34			05:44			05:31
	17:21	42	16:30 (KLZ_WT15)	18:16	6	08:12 (KLZ_WT10)	19:04			20:55			21:41			22:05
25	08:34		15:47 (KLZ_WT15)	07:41		08:04 (KLZ_WT10)	06:39			06:32		06:55 (KLZ_WT23)	05:43			05:31
	17:22	43	16:30 (KLZ_WT15)	18:18	8	08:12 (KLZ_WT10)	19:05			20:57	9	07:04 (KLZ_WT23)	21:42			22:05
26	08:32		15:47 (KLZ_WT15)	07:39		08:02 (KLZ_WT10)	06:37			06:30		06:53 (KLZ_WT23)	05:42			05:31
	17:24	45	16:32 (KLZ_WT15)	18:20	10	08:12 (KLZ_WT10)	19:07			20:58	13	07:06 (KLZ_WT23)	21:43			22:05
27	08:31		15:46 (KLZ_WT15)	07:36		08:03 (KLZ_WT10)	06:35			06:28		06:51 (KLZ_WT23)	05:41			05:32
	17:26	46	16:32 (KLZ_WT15)	18:21	8	08:11 (KLZ_WT10)	19:09			21:00	16	07:07 (KLZ_WT23)	21:45			22:05
28	08:30		15:46 (KLZ_WT15)	07:34		08:04 (KLZ_WT10)	06:32			06:26		06:50 (SAM_WT06)	05:40			05:32
	17:28	47	16:33 (KLZ_WT15)	18:23	4	08:08 (KLZ_WT10)	19:10			21:01	19	07:09 (KLZ_WT23)	21:46			22:05
29	08:28		15:46 (KLZ_WT15)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33
	17:29	47	16:33 (KLZ_WT15)				20:12			21:03	21	07:09 (KLZ_WT23)	21:47			22:05
30	08:27		08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33
	17:31	50	16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	23	07:09 (KLZ_WT23)	21:48			22:04
31	08:26		08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37			
	17:33	51	16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		1143			872			312			159			181		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,65			0,70			0,57			0,65			0,66		
Total reduction		0,16			0,21			0,21			0,30			0,29		
Total, real		180			179			66			47			53		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34		06:09		06:57	07:23 (SAM_WT07)	07:44	08:09 (CBR_WT01)	07:37	15:19 (KLZ_WT15)	08:26	08:57 (RHR_WT01)
	22:04		21:34		20:33	7 07:30 (SAM_WT07)	19:25	26 08:35 (KLZ_WT19)	17:21	45 16:04 (KLZ_WT15)	16:42	35 15:53 (KLZ_WT15)
2	05:35		06:11	07:05 (KLZ_WT23)	06:59	07:24 (SAM_WT07)	07:46	08:11 (CBR_WT01)	07:38	15:18 (KLZ_WT15)	08:27	08:59 (RHR_WT01)
	22:04		21:32	7 07:12 (KLZ_WT23)	20:31	5 07:29 (SAM_WT07)	19:23	24 08:35 (KLZ_WT19)	17:19	47 16:05 (KLZ_WT15)	16:42	30 15:52 (KLZ_WT15)
3	05:35		06:12	07:02 (KLZ_WT23)	07:00	07:26 (SAM_WT07)	07:48	08:12 (KLZ_WT19)	07:40	08:10 (MVN_WT01)	08:29	09:00 (RHR_WT01)
	22:04		21:30	12 07:14 (KLZ_WT23)	20:29	2 07:28 (SAM_WT07)	19:21	22 08:34 (KLZ_WT19)	17:17	49 16:05 (KLZ_WT15)	16:41	17 09:20 (KLZ_WT08)
4	05:36		06:14	07:01 (KLZ_WT23)	07:02		07:49	08:14 (KLZ_WT19)	07:42	08:09 (MVN_WT01)	08:30	09:05 (KLZ_WT08)
	22:03		21:29	14 07:15 (KLZ_WT23)	20:27		19:19	20 08:34 (KLZ_WT19)	17:16	53 16:05 (KLZ_WT15)	16:40	16 09:21 (KLZ_WT08)
5	05:37		06:15	07:00 (KLZ_WT23)	07:03	07:29 (SAM_WT11)	07:51	08:16 (KLZ_WT19)	07:44	08:11 (MVN_WT01)	08:31	09:06 (KLZ_WT08)
	22:03		21:27	16 07:16 (KLZ_WT23)	20:24	3 07:32 (SAM_WT11)	19:16	17 08:33 (KLZ_WT19)	17:14	52 16:05 (KLZ_WT15)	16:40	15 09:21 (KLZ_WT08)
6	05:38		06:17	06:59 (KLZ_WT23)	07:05	07:30 (SAM_WT11)	07:53	08:17 (KLZ_WT19)	07:45	08:13 (MVN_WT01)	08:33	09:06 (KLZ_WT08)
	22:02		21:25	18 07:17 (KLZ_WT23)	20:22	2 07:32 (SAM_WT11)	19:14	14 08:31 (KLZ_WT19)	17:12	50 16:05 (KLZ_WT15)	16:40	15 09:21 (KLZ_WT08)
7	05:38		06:18	06:59 (KLZ_WT23)	07:07	07:32 (SAM_WT11)	07:54	08:19 (KLZ_WT19)	07:47	08:15 (MVN_WT01)	08:34	09:07 (KLZ_WT08)
	22:02		21:24	19 07:18 (KLZ_WT23)	20:20	1 07:33 (SAM_WT11)	19:12	11 08:30 (KLZ_WT19)	17:11	49 16:05 (KLZ_WT15)	16:39	14 09:21 (KLZ_WT08)
8	05:39		06:20	06:58 (KLZ_WT23)	07:08		07:56	08:21 (KLZ_WT19)	07:49	15:17 (KLZ_WT15)	08:35	09:08 (KLZ_WT08)
	22:01		21:22	20 07:18 (KLZ_WT23)	20:18		19:10	7 08:28 (KLZ_WT19)	17:09	49 16:06 (KLZ_WT15)	16:39	13 09:21 (KLZ_WT08)
9	05:40		06:21	06:58 (KLZ_WT23)	07:10		07:58		07:50	08:19 (MXS_WT01)	08:36	09:09 (KLZ_WT08)
	22:00		21:20	20 07:18 (KLZ_WT23)	20:15		19:08		17:07	53 16:06 (KLZ_WT15)	16:39	12 09:21 (KLZ_WT08)
10	05:41		06:23	06:57 (KLZ_WT23)	07:11		07:59		07:52	08:21 (MXS_WT01)	08:37	09:10 (KLZ_WT08)
	22:00		21:18	21 07:18 (KLZ_WT23)	20:13		19:05		17:06	53 16:06 (KLZ_WT15)	16:38	11 09:21 (KLZ_WT08)
11	05:42		06:24	06:57 (KLZ_WT23)	07:13		08:01		07:54	08:23 (MXS_WT01)	08:38	09:10 (KLZ_WT08)
	21:59		21:16	21 07:18 (KLZ_WT23)	20:11		19:03		17:04	51 16:06 (KLZ_WT15)	16:38	11 09:21 (KLZ_WT08)
12	05:43		06:26	06:55 (SAM_WT06)	07:14		08:02		07:56	08:24 (MXS_WT01)	08:39	09:11 (KLZ_WT08)
	21:58		21:14	23 07:18 (KLZ_WT23)	20:09		19:01		17:03	50 16:05 (KLZ_WT15)	16:38	10 09:21 (KLZ_WT08)
13	05:44		06:27	06:54 (SAM_WT06)	07:16	07:41 (SAM_WT04)	08:04		07:57	15:18 (KLZ_WT15)	08:40	09:12 (KLZ_WT08)
	21:57		21:13	23 07:17 (KLZ_WT23)	20:06	1 07:42 (SAM_WT04)	18:59		17:01	47 16:05 (KLZ_WT15)	16:38	9 09:21 (KLZ_WT08)
14	05:45		06:29	06:56 (SAM_WT06)	07:18		08:06	08:36 (KLZ_WT10)	07:59	15:18 (KLZ_WT15)	08:41	09:13 (KLZ_WT08)
	21:56		21:11	21 07:17 (KLZ_WT23)	20:04		18:57	6 08:42 (KLZ_WT10)	17:00	47 16:05 (KLZ_WT15)	16:38	8 09:21 (KLZ_WT08)
15	05:47		06:30	06:57 (SAM_WT06)	07:19		08:07	08:34 (KLZ_WT10)	08:01	15:19 (KLZ_WT15)	08:42	09:15 (KLZ_WT08)
	21:56		21:09	18 07:15 (KLZ_WT23)	20:02		18:55	10 08:44 (KLZ_WT10)	16:59	46 16:05 (KLZ_WT15)	16:38	6 09:21 (KLZ_WT08)
16	05:48		06:32	06:59 (KLZ_WT23)	07:21		08:09	08:35 (KLZ_WT10)	08:02	15:20 (KLZ_WT15)	08:43	09:16 (KLZ_WT08)
	21:55		21:07	16 07:15 (KLZ_WT23)	20:00		18:53	9 08:44 (KLZ_WT10)	16:57	45 16:05 (KLZ_WT15)	16:38	5 09:21 (KLZ_WT08)
17	05:49		06:34	07:00 (KLZ_WT23)	07:22		08:11	08:36 (KLZ_WT10)	08:04	15:21 (KLZ_WT15)	08:44	09:17 (RHR_WT02)
	21:54		21:05	12 07:12 (KLZ_WT23)	19:57		18:50	8 08:44 (KLZ_WT10)	16:56	43 16:04 (KLZ_WT15)	16:39	4 09:21 (KLZ_WT08)
18	05:50		06:35	07:02 (KLZ_WT23)	07:24		08:12	08:38 (KLZ_WT10)	08:06	15:22 (KLZ_WT15)	08:45	09:16 (RHR_WT02)
	21:52		21:03	9 07:11 (KLZ_WT23)	19:55		18:48	6 08:44 (KLZ_WT10)	16:55	42 16:04 (KLZ_WT15)	16:39	5 09:21 (RHR_WT02)
19	05:51		06:37		07:25		08:14	08:40 (KLZ_WT10)	08:08	09:05 (KLZ_WT08)	08:45	09:17 (RHR_WT02)
	21:51		21:01		19:53		18:46	3 08:43 (KLZ_WT10)	16:53	45 16:03 (KLZ_WT15)	16:39	5 09:22 (RHR_WT02)
20	05:53		06:38		07:27		08:16		08:09	09:04 (KLZ_WT08)	08:46	09:18 (RHR_WT02)
	21:50		20:59		19:50		18:44		16:52	48 16:03 (KLZ_WT15)	16:39	5 09:23 (RHR_WT02)
21	05:54		06:40		07:29		08:18	16:40 (KLZ_WT15)	08:11	09:03 (KLZ_WT08)	08:47	09:18 (RHR_WT02)
	21:49		20:57		19:48		18:42	6 16:46 (KLZ_WT15)	16:51	49 16:02 (KLZ_WT15)	16:40	5 09:23 (RHR_WT02)
22	05:55		06:41		07:30		08:19	16:34 (KLZ_WT15)	08:12	09:02 (KLZ_WT08)	08:47	09:19 (RHR_WT02)
	21:48		20:55		19:46		18:40	17 16:51 (KLZ_WT15)	16:50	51 16:02 (KLZ_WT15)	16:40	5 09:24 (RHR_WT02)
23	05:56		06:43		07:32	07:56 (SAM_WT05)	08:21	16:31 (KLZ_WT15)	08:14	09:01 (KLZ_WT08)	08:48	09:19 (RHR_WT02)
	21:47		20:53		19:44	5 08:01 (SAM_WT05)	18:38	23 16:54 (KLZ_WT15)	16:49	50 16:01 (KLZ_WT15)	16:41	5 09:24 (RHR_WT02)
24	05:58		06:45		07:33	07:58 (SAM_WT05)	08:23	16:29 (KLZ_WT15)	08:16	08:51 (RHR_WT01)	08:48	09:19 (RHR_WT02)
	21:45		20:50		19:41	10 08:14 (CBR_WT01)	18:36	28 16:57 (KLZ_WT15)	16:48	50 16:00 (KLZ_WT15)	16:41	5 09:24 (RHR_WT02)
25	05:59		06:46		07:35	07:59 (SAM_WT05)	07:24	15:27 (KLZ_WT15)	08:17	08:49 (RHR_WT01)	08:48	09:20 (RHR_WT02)
	21:44		20:48		19:39	17 08:27 (KLZ_WT19)	17:34	31 15:58 (KLZ_WT15)	16:47	54 16:00 (KLZ_WT15)	16:42	5 09:25 (RHR_WT02)
26	06:01		06:48		07:36	08:01 (SAM_WT05)	07:26	15:25 (KLZ_WT15)	08:19	08:49 (RHR_WT01)	08:49	09:20 (RHR_WT02)
	21:43		20:46		19:37	25 08:31 (KLZ_WT19)	17:32	35 16:00 (KLZ_WT15)	16:46	53 15:58 (KLZ_WT15)	16:43	5 09:25 (RHR_WT02)
27	06:02		06:49	07:23 (SAM_WT07)	07:38	08:03 (CBR_WT01)	07:28	15:23 (KLZ_WT15)	08:20	08:51 (RHR_WT01)	08:49	09:21 (RHR_WT02)
	21:41		20:44	2 07:25 (SAM_WT07)	19:35	30 08:33 (KLZ_WT19)	17:30	37 16:00 (KLZ_WT15)	16:45	50 15:58 (KLZ_WT15)	16:43	5 09:26 (KLZ_WT08)
28	06:03		06:51	07:20 (SAM_WT07)	07:40	08:04 (CBR_WT01)	07:30	15:22 (KLZ_WT15)	08:22	08:53 (RHR_WT01)	08:49	09:21 (KLZ_WT08)
	21:40		20:42	8 07:28 (SAM_WT07)	19:32	30 08:34 (KLZ_WT19)	17:28	39 16:01 (KLZ_WT15)	16:44	48 15:57 (KLZ_WT15)	16:44	5 09:26 (KLZ_WT08)
29	06:05		06:52	07:18 (SAM_WT07)	07:41	08:06 (CBR_WT01)	07:31	15:21 (KLZ_WT15)	08:23	08:54 (RHR_WT01)	08:49	09:20 (KLZ_WT08)
	21:38		20:40	11 07:29 (SAM_WT07)	19:30	29 08:35 (KLZ_WT19)	17:27	41 16:02 (KLZ_WT15)	16:44	44 15:56 (KLZ_WT15)	16:45	7 09:27 (KLZ_WT08)
30	06:06		06:54	07:20 (SAM_WT07)	07:43	08:08 (CBR_WT01)	07:33	15:20 (KLZ_WT15)	08:25	08:56 (RHR_WT01)	08:50	09:20 (KLZ_WT08)
	21:37		20:38	10 07:30 (SAM_WT07)	19:28	28 08:36 (KLZ_WT19)	17:25	43 16:03 (KLZ_WT15)	16:43	40 15:55 (KLZ_WT15)	16:46	8 09:28 (KLZ_WT08)
31	06:08		06:56	07:21 (SAM_WT07)			07:35	15:19 (KLZ_WT15)			08:50	09:20 (KLZ_WT08)
	21:35		20:35	8 07:29 (SAM_WT07)			17:23	45 16:04 (KLZ_WT15)			16:47	9 09:29 (KLZ_WT08)
Potential sun hours	498		451		380		333		269		248	
Total, worst case			329			195		528		1453		310
Sun reduction			0,47			0,43		0,36		0,27		0,23
Oper. time red.			0,97			0,97		0,97		0,97		0,97
Wind dir. red.			0,66			0,59		0,66		0,68		0,54
Total reduction			0,30			0,25		0,23		0,18		0,12
Total, real			99			48		124		259		37

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20		07:01 (KLZ_WT23)	05:36
	16:48	6	09:26 (MXS_WT01)	17:35	38	16:59 (KLZ_WT15)	18:25	30	08:39 (KLZ_WT19)	20:17	5	07:51 (SAM_WT11)	21:06	26	07:27 (KLZ_WT23)	21:51
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18		07:01 (KLZ_WT23)	05:36
	16:49	7	09:27 (MXS_WT01)	17:36	35	16:58 (KLZ_WT15)	18:27	29	08:37 (KLZ_WT19)	20:19	6	07:49 (SAM_WT11)	21:08	26	07:27 (KLZ_WT23)	21:52
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16		07:02 (KLZ_WT23)	05:35
	16:50	7	09:27 (MXS_WT01)	17:38	32	16:58 (KLZ_WT15)	18:28	20	08:31 (KLZ_WT19)	20:20	6	07:47 (SAM_WT07)	21:10	25	07:27 (KLZ_WT23)	21:53
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15		07:02 (KLZ_WT23)	05:34
	16:51	7	09:26 (MXS_WT01)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	24	07:26 (KLZ_WT23)	21:54
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13		07:02 (KLZ_WT23)	05:34
	16:53	6	09:26 (MXS_WT01)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	23	07:25 (KLZ_WT23)	21:55
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11		07:03 (KLZ_WT23)	05:33
	16:54	5	09:25 (MXS_WT01)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	22	07:25 (KLZ_WT23)	21:56
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09		07:04 (KLZ_WT23)	05:32
	16:55	1	09:24 (MXS_WT01)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	15	07:47 (SAM_WT07)	21:16	19	07:23 (KLZ_WT23)	21:56
8	08:48			08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08		07:05 (KLZ_WT23)	05:32
	16:56			17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	14	07:46 (SAM_WT07)	21:17	16	07:21 (KLZ_WT23)	21:57
9	08:48			08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06		07:07 (KLZ_WT23)	05:31
	16:58			17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	12	07:45 (SAM_WT07)	21:19	13	07:20 (KLZ_WT23)	21:58
10	08:47			08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04		07:09 (KLZ_WT23)	05:31
	16:59			17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	9	07:43 (SAM_WT07)	21:21	8	07:17 (KLZ_WT23)	21:59
11	08:46			08:08			07:11		07:33 (SAM_WT05)	07:01		07:38 (SAM_WT07)	06:03			05:31
	17:00			17:53			18:42	8	07:41 (SAM_WT05)	20:34	1	07:39 (SAM_WT07)	21:22			22:00
12	08:46			08:06			07:08		07:31 (SAM_WT05)	06:59			06:01			05:30
	17:02			17:55			18:44	8	07:39 (SAM_WT05)	20:35			21:24			22:00
13	08:45			08:04		08:28 (KLZ_WT19)	07:06			06:57			05:59			05:30
	17:03			17:56	8	08:36 (KLZ_WT19)	18:45			20:37			21:25			22:01
14	08:44			08:02		08:26 (KLZ_WT19)	07:04			06:55			05:58			05:30
	17:05			17:58	13	08:39 (KLZ_WT19)	18:47			20:38			21:27			22:02
15	08:44			08:00		08:24 (KLZ_WT19)	07:02			06:52			05:56			05:30
	17:06			18:00	17	08:41 (KLZ_WT19)	18:49			20:40			21:28			22:02
16	08:43			07:58		08:22 (KLZ_WT19)	06:59			06:50			05:55			05:30
	17:08			18:02	20	08:42 (KLZ_WT19)	18:50			20:42			21:30			22:03
17	08:42			07:57		08:21 (KLZ_WT19)	06:57			06:48			05:54			05:30
	17:09			18:04	22	08:43 (KLZ_WT19)	18:52			20:43			21:31			22:03
18	08:41			07:55		08:20 (KLZ_WT19)	06:55			06:46			05:52			05:29
	17:11			18:05	24	08:44 (KLZ_WT19)	18:54			20:45			21:33			22:03
19	08:40			07:53		08:19 (KLZ_WT19)	06:53			06:44			05:51			05:30
	17:12			18:07	26	08:45 (KLZ_WT19)	18:55			20:47			21:34			22:04
20	08:39		16:39 (KLZ_WT15)	07:51		08:18 (KLZ_WT19)	06:50			06:42		07:12 (KLZ_WT23)	05:49			05:30
	17:14	4	16:43 (KLZ_WT15)	18:09	27	08:45 (KLZ_WT19)	18:57			20:48	9	07:21 (KLZ_WT23)	21:35			22:04
21	08:38		09:05 (MVN_WT01)	07:49		08:18 (KLZ_WT19)	06:48			06:40		07:03 (SAM_WT06)	05:48			05:30
	17:16	9	16:44 (KLZ_WT15)	18:11	27	08:45 (KLZ_WT19)	18:59			20:50	17	07:24 (KLZ_WT23)	21:37			22:04
22	08:37		09:04 (MVN_WT01)	07:47		08:18 (KLZ_WT19)	06:46			06:38		07:01 (SAM_WT06)	05:47			05:30
	17:17	14	16:46 (KLZ_WT15)	18:12	27	08:45 (KLZ_WT19)	19:00			20:52	23	07:25 (KLZ_WT23)	21:38			22:05
23	08:36		09:03 (KLZ_WT10)	07:45		08:18 (KLZ_WT19)	06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46			05:30
	17:19	17	16:48 (KLZ_WT15)	18:14	27	08:45 (KLZ_WT19)	19:02	2	07:08 (SAM_WT04)	20:53	27	07:26 (KLZ_WT23)	21:40			22:05
24	08:35		09:02 (KLZ_WT10)	07:43		08:18 (KLZ_WT19)	06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44			05:30
	17:21	22	16:50 (KLZ_WT15)	18:16	27	08:45 (KLZ_WT19)	19:04	3	07:07 (SAM_WT04)	20:55	30	07:27 (KLZ_WT23)	21:41			22:05
25	08:34		09:00 (KLZ_WT10)	07:41		08:19 (KLZ_WT19)	06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43			05:31
	17:22	25	16:51 (KLZ_WT15)	18:18	25	08:44 (KLZ_WT19)	19:05	4	07:05 (SAM_WT04)	20:57	32	07:27 (KLZ_WT23)	21:42			22:05
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31
	17:24	30	16:54 (KLZ_WT15)	18:20	27	08:44 (KLZ_WT19)	19:07			20:58	35	07:28 (KLZ_WT23)	21:43			22:05
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41			05:32
	17:26	34	16:55 (KLZ_WT15)	18:21	30	08:43 (KLZ_WT19)	19:09			21:00	36	07:28 (KLZ_WT23)	21:45			22:05
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40			05:32
	17:28	38	16:57 (KLZ_WT15)	18:23	31	08:41 (KLZ_WT19)	19:10			21:01	35	07:28 (KLZ_WT23)	21:46			22:05
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39			05:33
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	33	07:28 (KLZ_WT23)	21:47			22:05
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22		07:01 (KLZ_WT23)	05:38			05:33
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05	27	07:28 (KLZ_WT23)	21:48			22:04
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37			
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		350			614			198			405			202		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,64			0,61			0,56			0,64			0,64		
Total reduction		0,16			0,18			0,21			0,29			0,29		
Total, real		54			110			41			118			58		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July		August			September			October			November			December		
1	05:34		06:09			06:57		07:37 (SAM_WT07)	07:44		08:11 (SAM_WT05)	07:37		16:11 (KLZ_WT15)	08:26		
	22:04		21:34			20:33	1	07:38 (SAM_WT07)	19:25	6	08:17 (SAM_WT05)	17:21	11	16:22 (KLZ_WT15)	16:42		
2	05:34		06:11		07:23 (KLZ_WT23)	06:59		07:32 (SAM_WT07)	07:46		08:11 (SAM_WT05)	07:38		16:09 (KLZ_WT15)	08:27		
	22:04		21:32	2	07:25 (KLZ_WT23)	20:31	9	07:41 (SAM_WT07)	19:23	8	08:19 (SAM_WT05)	17:19	15	16:24 (KLZ_WT15)	16:41		
3	05:35		06:12		07:18 (KLZ_WT23)	07:00		07:31 (SAM_WT07)	07:48		08:12 (SAM_WT05)	07:40		16:08 (KLZ_WT15)	08:29		
	22:04		21:30	11	07:29 (KLZ_WT23)	20:29	12	07:43 (SAM_WT07)	19:21	7	08:19 (SAM_WT05)	17:17	18	16:26 (KLZ_WT15)	16:41		
4	05:36		06:14		07:16 (KLZ_WT23)	07:02		07:29 (SAM_WT07)	07:49		08:14 (SAM_WT05)	07:42		16:05 (KLZ_WT15)	08:30		
	22:03		21:29	14	07:30 (KLZ_WT23)	20:27	14	07:43 (SAM_WT07)	19:19	6	08:20 (SAM_WT05)	17:16	21	16:26 (KLZ_WT15)	16:40		
5	05:37		06:15		07:15 (KLZ_WT23)	07:03		07:29 (SAM_WT07)	07:51		08:16 (SAM_WT05)	07:44		16:05 (KLZ_WT15)	08:31		
	22:03		21:27	17	07:32 (KLZ_WT23)	20:24	15	07:44 (SAM_WT07)	19:16	11	08:39 (CBR_WT01)	17:14	22	16:27 (KLZ_WT15)	16:40		
6	05:38		06:17		07:13 (KLZ_WT23)	07:05		07:30 (SAM_WT07)	07:53		08:17 (SAM_WT05)	07:45		16:04 (KLZ_WT15)	08:33		09:06 (MXS_WT01)
	22:02		21:25	20	07:33 (KLZ_WT23)	20:22	13	07:43 (SAM_WT07)	19:14	13	08:41 (CBR_WT01)	17:12	24	16:28 (KLZ_WT15)	16:39	5	09:11 (MXS_WT01)
7	05:38		06:18		07:13 (KLZ_WT23)	07:07		07:32 (SAM_WT07)	07:54		08:28 (CBR_WT01)	07:47		16:04 (KLZ_WT15)	08:34		09:07 (MXS_WT01)
	22:02		21:24	21	07:34 (KLZ_WT23)	20:20	11	07:43 (SAM_WT07)	19:12	14	08:42 (CBR_WT01)	17:11	24	16:28 (KLZ_WT15)	16:39	6	09:13 (MXS_WT01)
8	05:39		06:20		07:11 (KLZ_WT23)	07:08		07:33 (SAM_WT07)	07:56		08:27 (CBR_WT01)	07:49		08:29 (KLZ_WT10)	08:35		09:07 (MXS_WT01)
	22:01		21:22	24	07:35 (KLZ_WT23)	20:18	9	07:42 (SAM_WT07)	19:10	16	08:43 (CBR_WT01)	17:09	33	16:29 (KLZ_WT15)	16:39	7	09:14 (MXS_WT01)
9	05:40		06:21		07:11 (KLZ_WT23)	07:10		07:35 (SAM_WT07)	07:57		08:25 (CBR_WT01)	07:50		08:28 (KLZ_WT10)	08:36		09:08 (MXS_WT01)
	22:00		21:20	25	07:36 (KLZ_WT23)	20:15	7	07:42 (SAM_WT07)	19:08	18	08:43 (CBR_WT01)	17:07	36	16:29 (KLZ_WT15)	16:39	7	09:15 (MXS_WT01)
10	05:41		06:23		07:10 (KLZ_WT23)	07:11		07:36 (SAM_WT07)	07:59		08:25 (CBR_WT01)	07:52		08:28 (KLZ_WT10)	08:37		09:09 (MXS_WT01)
	22:00		21:18	26	07:36 (KLZ_WT23)	20:13	6	07:42 (SAM_WT11)	19:05	18	08:43 (CBR_WT01)	17:06	38	16:30 (KLZ_WT15)	16:38	7	09:16 (MXS_WT01)
11	05:42		06:24		07:09 (KLZ_WT23)	07:13		07:38 (SAM_WT11)	08:01		08:26 (CBR_WT01)	07:54		08:27 (KLZ_WT10)	08:38		09:10 (MXS_WT01)
	21:59		21:16	26	07:35 (KLZ_WT23)	20:11	6	07:44 (SAM_WT11)	19:03	26	09:09 (KLZ_WT19)	17:04	40	16:30 (KLZ_WT15)	16:38	6	09:16 (MXS_WT01)
12	05:43		06:26		07:09 (KLZ_WT23)	07:14		07:39 (SAM_WT11)	08:02		08:28 (CBR_WT01)	07:56		08:26 (KLZ_WT10)	08:39		09:11 (MXS_WT01)
	21:58		21:14	27	07:36 (KLZ_WT23)	20:09	5	07:44 (SAM_WT11)	19:01	29	09:12 (KLZ_WT19)	17:03	40	16:29 (KLZ_WT15)	16:38	6	09:17 (MXS_WT01)
13	05:44		06:27		07:09 (KLZ_WT23)	07:16		07:41 (SAM_WT11)	08:04		08:29 (CBR_WT01)	07:57		08:27 (KLZ_WT10)	08:40		09:12 (MXS_WT01)
	21:57		21:13	27	07:36 (KLZ_WT23)	20:06	3	07:44 (SAM_WT11)	18:59	31	09:13 (KLZ_WT19)	17:01	39	16:29 (KLZ_WT15)	16:38	6	09:18 (MXS_WT01)
14	05:45		06:29		07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06		08:31 (CBR_WT01)	07:59		08:28 (KLZ_WT10)	08:41		09:13 (MXS_WT01)
	21:56		21:11	34	07:36 (KLZ_WT23)	20:04	1	07:43 (SAM_WT11)	18:57	30	09:14 (KLZ_WT19)	17:00	38	16:29 (KLZ_WT15)	16:38	5	09:18 (MXS_WT01)
15	05:46		06:30		07:00 (SAM_WT06)	07:19			08:07		08:33 (CBR_WT01)	08:01		08:30 (KLZ_WT10)	08:42		09:14 (MXS_WT01)
	21:56		21:09	35	07:35 (KLZ_WT23)	20:02			18:55	28	09:15 (KLZ_WT19)	16:59	34	16:28 (KLZ_WT15)	16:38	5	09:19 (MXS_WT01)
16	05:48		06:32		07:00 (SAM_WT06)	07:21			08:09		08:51 (KLZ_WT19)	08:02		08:32 (KLZ_WT10)	08:43		09:15 (MXS_WT01)
	21:55		21:07	35	07:35 (KLZ_WT23)	20:00			18:53	25	09:16 (KLZ_WT19)	16:57	30	16:27 (KLZ_WT15)	16:38	5	09:20 (MXS_WT01)
17	05:49		06:34		07:00 (SAM_WT06)	07:22			08:11		08:50 (KLZ_WT19)	08:04		08:34 (KLZ_WT10)	08:44		09:16 (MXS_WT01)
	21:54		21:05	34	07:34 (KLZ_WT23)	19:57			18:50	26	09:16 (KLZ_WT19)	16:56	25	16:25 (KLZ_WT15)	16:38	4	09:20 (MXS_WT01)
18	05:50		06:35		07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12		08:49 (KLZ_WT19)	08:06		08:36 (KLZ_WT10)	08:45		09:16 (MXS_WT01)
	21:52		21:03	32	07:34 (KLZ_WT23)	19:55	4	07:53 (SAM_WT04)	18:48	27	09:16 (KLZ_WT19)	16:55	22	16:24 (KLZ_WT15)	16:39	4	09:20 (MXS_WT01)
19	05:51		06:37		07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14		08:49 (KLZ_WT19)	08:07		08:37 (KLZ_WT10)	08:45		09:17 (MXS_WT01)
	21:51		21:01	29	07:32 (KLZ_WT23)	19:53	4	07:54 (SAM_WT04)	18:46	28	09:17 (KLZ_WT19)	16:53	17	16:22 (KLZ_WT15)	16:39	4	09:21 (MXS_WT01)
20	05:53		06:38		07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16		08:49 (KLZ_WT19)	08:09		08:39 (MVN_WT01)	08:46		09:18 (MXS_WT01)
	21:50		20:59	27	07:32 (KLZ_WT23)	19:50	3	07:55 (SAM_WT04)	18:44	28	09:17 (KLZ_WT19)	16:52	14	16:21 (KLZ_WT15)	16:39	4	09:22 (MXS_WT01)
21	05:54		06:40		07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18		08:49 (KLZ_WT19)	08:11		08:41 (MVN_WT01)	08:47		09:18 (MXS_WT01)
	21:49		20:57	23	07:30 (KLZ_WT23)	19:48	1	07:54 (SAM_WT04)	18:42	27	09:16 (KLZ_WT19)	16:51	9	16:20 (KLZ_WT15)	16:40	4	09:22 (MXS_WT01)
22	05:55		06:41		07:08 (SAM_WT06)	07:30			08:19		08:49 (KLZ_WT19)	08:12		16:15 (KLZ_WT15)	08:47		09:19 (MXS_WT01)
	21:48		20:55	16	07:28 (KLZ_WT23)	19:46			18:40	26	09:15 (KLZ_WT19)	16:50	4	16:19 (KLZ_WT15)	16:40	4	09:23 (MXS_WT01)
23	05:56		06:43		07:16 (KLZ_WT23)	07:32			08:21		08:50 (KLZ_WT19)	08:14			08:48		09:19 (MXS_WT01)
	21:47		20:53	9	07:25 (KLZ_WT23)	19:44			18:38	25	09:15 (KLZ_WT19)	16:49			16:41	4	09:23 (MXS_WT01)
24	05:58		06:45			07:33			08:23		08:50 (KLZ_WT19)	08:16			08:48		09:19 (MXS_WT01)
	21:45		20:50			19:41			18:36	24	09:14 (KLZ_WT19)	16:48			16:41	4	09:23 (MXS_WT01)
25	05:59		06:46			07:35			07:24		07:51 (KLZ_WT19)	08:17			08:48		09:20 (MXS_WT01)
	21:44		20:48			19:39			17:34	23	08:14 (KLZ_WT19)	16:47			16:42	4	09:24 (MXS_WT01)
26	06:00		06:48			07:36			07:26		07:53 (KLZ_WT19)	08:19			08:49		09:20 (MXS_WT01)
	21:43		20:46			19:37			17:32	19	08:12 (KLZ_WT19)	16:46			16:43	4	09:24 (MXS_WT01)
27	06:02		06:49			07:38			07:28		07:54 (KLZ_WT19)	08:20			08:49		09:20 (MXS_WT01)
	21:41		20:44			19:34			17:30	16	08:10 (KLZ_WT19)	16:45			16:43	5	09:25 (MXS_WT01)
28	06:03		06:51			07:40			07:30		07:56 (KLZ_WT19)	08:22			08:49		09:20 (MXS_WT01)
	21:40		20:42			19:32			17:28	12	08:08 (KLZ_WT19)	16:44			16:44	5	09:25 (MXS_WT01)
29	06:05		06:52			07:41			07:31		07:59 (KLZ_WT19)	08:23			08:49		09:20 (MXS_WT01)
	21:38		20:40			19:30			17:27	5	08:04 (KLZ_WT19)	16:44			16:45	5	09:25 (MXS_WT01)
30	06:06		06:54			07:43			07:33			08:25			08:50		09:20 (MXS_WT01)
	21:37		20:38			19:28			17:25			16:43			16:46	5	09:25 (MXS_WT01)
31	06:08		06:56						07:35						08:50		09:20 (MXS_WT01)
	21:35		20:35						17:23						16:47	6	09:26 (MXS_WT01)
Potential sun hours	498		451			380			333			269			248		
Total, worst case				514			124			572			554			131	
Sun reduction				0,47			0,43			0,36			0,27			0,23	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,65			0,63			0,56			0,67			0,53	
Total reduction				0,29			0,27			0,20			0,18			0,12	
Total, real				151			33			113			97			15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		08:50 (SAM_WT04)	07:32		07:55 (KLZ_WT17)	07:23		07:45 (KLZ_WT01)	06:20			05:36		06:17 (TEN_WT01)
	16:48	114	15:57 (KLZ_WT13)	17:35	15	16:50 (EVE_WT02)	18:25	34	17:42 (EVE_WT01)	20:17	6	07:51 (KLZ_WT01)	21:06			21:51	16	06:33 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		07:53 (KLZ_WT17)	07:21		07:46 (KLZ_WT01)	06:18			05:36		06:19 (TEN_WT01)
	16:49	112	15:57 (KLZ_WT13)	17:36	12	16:48 (EVE_WT02)	18:26	36	17:41 (EVE_WT01)	20:19	2	07:48 (KLZ_WT01)	21:08			21:52	14	06:33 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		07:51 (KLZ_WT17)	07:19			06:16			05:35		06:19 (TEN_WT01)
	16:50	112	15:58 (KLZ_WT13)	17:38	7	09:09 (KLZ_WT05)	18:28	35	17:39 (EVE_WT01)	20:20			21:10			21:53	14	06:33 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT11)	07:26		07:49 (KLZ_WT17)	07:17			06:15			05:34		06:19 (TEN_WT01)
	16:51	110	15:57 (KLZ_WT13)	17:40	16	09:14 (KLZ_WT05)	18:30	32	17:36 (EVE_WT01)	20:22			21:11			21:54	13	06:32 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT11)	07:24		07:46 (SAM_WT08)	07:14			06:13			05:33		06:20 (TEN_WT01)
	16:52	109	15:58 (KLZ_WT13)	17:42	21	09:16 (KLZ_WT05)	18:32	26	08:12 (KLZ_WT04)	20:24			21:13			21:55	12	06:32 (TEN_WT01)
6	08:49		09:19 (SAM_WT05)	08:16		08:41 (SAM_WT11)	07:21		07:44 (SAM_WT08)	07:12			06:11			05:33		06:21 (TEN_WT01)
	16:54	107	15:57 (KLZ_WT13)	17:44	25	09:17 (KLZ_WT05)	18:33	28	08:12 (KLZ_WT04)	20:25			21:14			21:56	10	06:31 (TEN_WT01)
7	08:48		09:21 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		07:42 (KLZ_WT17)	07:10			06:09			05:32		06:22 (TEN_WT01)
	16:55	102	15:58 (KLZ_WT13)	17:45	29	09:18 (KLZ_WT05)	18:35	30	08:12 (KLZ_WT04)	20:27			21:16			21:57	9	06:31 (TEN_WT01)
8	08:48		09:36 (KLZ_WT23)	08:13		08:57 (KLZ_WT05)	07:17		07:40 (KLZ_WT17)	07:08			06:08			05:32		06:23 (TEN_WT01)
	16:56	94	15:57 (KLZ_WT13)	17:47	23	09:20 (KLZ_WT05)	18:37	32	08:12 (KLZ_WT04)	20:29			21:17			21:57	6	06:29 (TEN_WT01)
9	08:48		09:37 (KLZ_WT23)	08:11		08:56 (KLZ_WT05)	07:15		07:39 (KLZ_WT17)	07:05			06:06			05:31		06:24 (TEN_WT01)
	16:58	90	15:57 (KLZ_WT13)	17:49	25	09:21 (KLZ_WT05)	18:39	33	08:12 (KLZ_WT17)	20:30			21:19			21:58	5	06:29 (TEN_WT01)
10	08:47		09:37 (KLZ_WT23)	08:09		08:55 (KLZ_WT05)	07:13		07:38 (KLZ_WT17)	07:03			06:04			05:31		
	16:59	85	15:56 (KLZ_WT13)	17:51	26	09:21 (KLZ_WT05)	18:40	32	08:10 (KLZ_WT17)	20:32			21:21			21:59		
11	08:47		09:37 (KLZ_WT23)	08:08		08:55 (KLZ_WT05)	07:10		07:38 (KLZ_WT17)	07:01			06:03		06:28 (EAM_WT02)	05:31		
	17:00	75	15:55 (KLZ_WT13)	17:53	27	09:22 (KLZ_WT05)	18:42	32	08:10 (KLZ_WT17)	20:34			21:22	1	06:29 (EAM_WT02)	22:00		
12	08:46		09:38 (KLZ_WT23)	08:06		08:54 (KLZ_WT05)	07:08		07:39 (KLZ_WT17)	06:59			06:01			05:30		
	17:02	65	15:56 (KLZ_WT12)	17:54	28	09:22 (KLZ_WT05)	18:44	31	08:10 (KLZ_WT17)	20:35			21:24			22:00		
13	08:45		09:39 (KLZ_WT23)	08:04		08:54 (KLZ_WT05)	07:06		07:39 (KLZ_WT17)	06:57			05:59		06:25 (EAM_WT01)	05:30		
	17:03	65	15:56 (KLZ_WT12)	17:56	28	09:22 (KLZ_WT05)	18:45	30	08:09 (KLZ_WT17)	20:37			21:25	2	06:27 (EAM_WT01)	22:01		
14	08:45		09:39 (KLZ_WT23)	08:02		08:26 (SAM_WT06)	07:04		07:39 (KLZ_WT17)	06:55			05:58		06:23 (EAM_WT01)	05:30		
	17:05	64	15:56 (KLZ_WT12)	17:58	30	09:22 (KLZ_WT05)	18:47	28	08:07 (KLZ_WT17)	20:38			21:27	4	06:27 (TEN_WT01)	22:02		
15	08:44		09:39 (KLZ_WT23)	08:00		08:24 (SAM_WT06)	07:02		07:40 (KLZ_WT17)	06:52			05:56		06:22 (EAM_WT01)	05:30		
	17:06	63	15:56 (KLZ_WT12)	18:00	34	09:22 (KLZ_WT05)	18:49	26	08:06 (KLZ_WT17)	20:40			21:28	7	06:29 (TEN_WT01)	22:02		
16	08:43		09:40 (KLZ_WT23)	07:58		08:22 (SAM_WT06)	06:59		07:41 (KLZ_WT17)	06:50			05:55		06:21 (EAM_WT01)	05:29		
	17:08	64	16:35 (EVE_WT02)	18:02	43	17:34 (EVE_WT01)	18:50	23	08:04 (KLZ_WT17)	20:42			21:30	10	06:31 (TEN_WT01)	22:03		
17	08:42		09:10 (SAM_WT07)	07:57		08:20 (SAM_WT06)	06:57		07:42 (KLZ_WT17)	06:48			05:53		06:19 (TEN_WT01)	05:29		
	17:09	67	16:37 (EVE_WT02)	18:03	48	17:36 (EVE_WT01)	18:52	19	08:01 (KLZ_WT17)	20:43			21:31	12	06:31 (TEN_WT01)	22:03		
18	08:41		09:09 (SAM_WT07)	07:55		08:18 (SAM_WT06)	06:55		07:44 (KLZ_WT17)	06:46			05:52		06:18 (TEN_WT01)	05:29		
	17:11	70	16:39 (EVE_WT02)	18:05	54	17:38 (EVE_WT01)	18:54	15	07:59 (KLZ_WT17)	20:45			21:33	14	06:32 (TEN_WT01)	22:04		
19	08:40		09:08 (SAM_WT07)	07:53		08:16 (SAM_WT06)	06:53		07:49 (KLZ_WT17)	06:44			05:51		06:17 (TEN_WT01)	05:29		
	17:12	72	16:41 (EVE_WT02)	18:07	57	17:40 (EVE_WT01)	18:55	5	07:54 (KLZ_WT17)	20:47			21:34	16	06:33 (TEN_WT01)	22:04		
20	08:39		09:07 (SAM_WT07)	07:51		08:15 (SAM_WT06)	06:50			06:42			05:49		06:16 (TEN_WT01)	05:30		
	17:14	74	16:43 (EVE_WT02)	18:09	57	17:42 (EVE_WT01)	18:57			20:48			21:35	18	06:34 (TEN_WT01)	22:04		
21	08:38		09:05 (SAM_WT07)	07:49		08:16 (SAM_WT06)	06:48			06:40			05:48		06:15 (TEN_WT01)	05:30		
	17:16	74	16:44 (EVE_WT02)	18:11	56	17:44 (EVE_WT01)	18:59			20:50			21:37	18	06:33 (TEN_WT01)	22:04		
22	08:37		09:04 (SAM_WT07)	07:47		08:16 (SAM_WT06)	06:46			06:38		07:01 (SAM_WT10)	05:47		06:15 (TEN_WT01)	05:30		
	17:17	75	16:46 (EVE_WT02)	18:12	52	17:46 (EVE_WT01)	19:00			20:52	2	07:03 (SAM_WT10)	21:38	19	06:34 (TEN_WT01)	22:05		
23	08:36		09:03 (SAM_WT07)	07:45		08:18 (SAM_WT06)	06:44			06:36		06:59 (SAM_WT10)	05:46		06:15 (TEN_WT01)	05:30		
	17:19	74	16:48 (EVE_WT02)	18:14	41	17:46 (EVE_WT01)	19:02			20:53	3	07:02 (SAM_WT10)	21:40	19	06:34 (TEN_WT01)	22:05		
24	08:35		09:02 (SAM_WT07)	07:43		08:20 (SAM_WT06)	06:41		07:04 (KLZ_WT02)	06:34		06:57 (SAM_WT10)	05:44		06:15 (TEN_WT01)	05:30		
	17:21	71	16:50 (EVE_WT02)	18:16	32	17:46 (EVE_WT01)	19:04	1	07:05 (KLZ_WT02)	20:55	5	07:02 (SAM_WT10)	21:41	19	06:34 (TEN_WT01)	22:05		
25	08:34		09:01 (SAM_WT07)	07:41		17:20 (EVE_WT01)	06:39		07:01 (KLZ_WT02)	06:32		06:55 (SAM_WT10)	05:43		06:15 (TEN_WT01)	05:31		
	17:22	68	16:51 (EVE_WT02)	18:18	26	17:46 (EVE_WT01)	19:05	4	07:05 (KLZ_WT02)	20:57	6	07:01 (SAM_WT10)	21:42	19	06:34 (TEN_WT01)	22:05		
26	08:32		09:01 (SAM_WT07)	07:38		17:20 (EVE_WT01)	06:37		06:59 (KLZ_WT02)	06:30		06:53 (SAM_WT10)	05:42		06:15 (TEN_WT01)	05:31		
	17:24	55	16:53 (EVE_WT02)	18:19	26	17:46 (EVE_WT01)	19:07	6	07:05 (KLZ_WT02)	20:58	6	06:59 (SAM_WT10)	21:43	19	06:34 (TEN_WT01)	22:05		
27	08:31		09:02 (SAM_WT07)	07:36		08:00 (KLZ_WT17)	06:35		06:57 (KLZ_WT02)	06:28		06:52 (SAM_WT10)	05:41		06:15 (TEN_WT01)	05:32		
	17:26	47	16:52 (EVE_WT02)	18:21	27	17:45 (EVE_WT01)	19:09	8	07:05 (KLZ_WT02)	21:00	5	06:57 (SAM_WT10)	21:45	19	06:34 (TEN_WT01)	22:05		
28	08:30		09:03 (SAM_WT07)	07:34		07:57 (KLZ_WT17)	06:32		06:54 (KLZ_WT02)	06:26			05:40		06:15 (TEN_WT01)	05:32		
	17:28	38	16:53 (EVE_WT02)	18:23	30	17:43 (EVE_WT01)	19:10	10	07:04 (KLZ_WT02)	21:01			21:46	19	06:34 (TEN_WT01)	22:05		
29	08:28		09:03 (SAM_WT07)				07:30		07:52 (KLZ_WT01)	06:24			05:39		06:17 (TEN_WT01)	05:33		
	17:29	31	16:52 (EVE_WT02)				20:12	9	08:03 (KLZ_WT02)	21:03			21:47	17	06:34 (TEN_WT01)	22:05		
30	08:27		09:06 (SAM_WT07)				07:28		07:50 (KLZ_WT01)	06:22			05:38		06:17 (TEN_WT01)	05:33		
	17:31	25	16:52 (EVE_WT02)				20:14	5	08:00 (KLZ_WT02)	21:05			21:48	17	06:34 (TEN_WT01)	22:05		
31	08:26		08:51 (SAM_WT04)				07:25		07:48 (KLZ_WT01)				05:37		06:17 (TEN_WT01)			
	17:33	18	16:51 (EVE_WT02)				20:15	5	07:53 (KLZ_WT01)				21:49	17	06:34 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2290			895			575			35			286			99	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,66			0,59			0,57			0,65			0,70			0,70	
Total reduction		0,16			0,17			0,21			0,29			0,31			0,30	
Total, real		365			156			121			10			89			30	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09			06:57			07:44		08:18 (KLZ_WT17)	07:37		08:25 (KLZ_WT05)	08:26		09:19 (KLZ_WT23)
	22:04			21:34			20:33			19:25	30	08:48 (KLZ_WT17)	17:21	26	08:51 (KLZ_WT05)	16:42	74	15:37 (KLZ_WT13)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT17)	07:38		08:26 (KLZ_WT05)	08:27		09:20 (KLZ_WT23)
	22:04			21:32			20:31			19:23	32	08:49 (KLZ_WT17)	17:19	24	08:50 (KLZ_WT05)	16:41	82	15:39 (KLZ_WT13)
3	05:35		06:30 (TEN_WT01)	06:12			07:00			07:48		08:16 (KLZ_WT17)	07:40		08:12 (SAM_WT11)	08:29		09:20 (KLZ_WT23)
	22:04	3	06:33 (TEN_WT01)	21:30			20:29			19:21	32	08:48 (KLZ_WT17)	17:17	26	08:50 (KLZ_WT05)	16:41	90	15:40 (KLZ_WT13)
4	05:36		06:29 (TEN_WT01)	06:13			07:02			07:49		08:16 (KLZ_WT17)	07:42		08:09 (SAM_WT11)	08:30		09:21 (KLZ_WT23)
	22:03	6	06:35 (TEN_WT01)	21:29			20:27			19:19	32	08:48 (KLZ_WT17)	17:16	29	08:48 (KLZ_WT05)	16:40	94	15:42 (KLZ_WT13)
5	05:37		06:28 (TEN_WT01)	06:15			07:03			07:51		08:16 (KLZ_WT17)	07:44		08:11 (SAM_WT11)	08:31		09:06 (SAM_WT05)
	22:03	8	06:36 (TEN_WT01)	21:27			20:24			19:16	32	08:48 (KLZ_WT04)	17:14	25	08:47 (KLZ_WT05)	16:40	102	15:43 (KLZ_WT13)
6	05:37		06:27 (TEN_WT01)	06:16			07:05			07:53		08:17 (KLZ_WT17)	07:45		08:13 (SAM_WT11)	08:33		09:05 (SAM_WT05)
	22:02	10	06:37 (TEN_WT01)	21:25			20:22			19:14	31	08:48 (KLZ_WT04)	17:12	21	08:46 (KLZ_WT05)	16:39	106	15:43 (KLZ_WT13)
7	05:38		06:27 (TEN_WT01)	06:18			07:07			07:54		08:19 (SAM_WT08)	07:47		08:15 (SAM_WT11)	08:34		09:06 (SAM_WT05)
	22:02	11	06:38 (TEN_WT01)	21:24			20:20			19:12	29	08:48 (KLZ_WT04)	17:11	16	08:44 (KLZ_WT05)	16:39	109	15:45 (KLZ_WT13)
8	05:39		06:27 (TEN_WT01)	06:20			07:08			07:56		08:21 (SAM_WT08)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	12	06:39 (TEN_WT01)	21:22			20:18			19:10	27	08:48 (KLZ_WT04)	17:09	5	08:22 (SAM_WT04)	16:39	110	15:45 (KLZ_WT13)
9	05:40		06:26 (TEN_WT01)	06:21			07:10			07:57		08:22 (KLZ_WT17)	07:51		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:20			20:15			19:08	25	08:47 (KLZ_WT04)	17:07	13	16:19 (EVE_WT02)	16:38	111	15:46 (KLZ_WT13)
10	05:41		06:26 (TEN_WT01)	06:23			07:11			07:59		08:24 (KLZ_WT17)	07:52		08:21 (SAM_WT04)	08:37		09:09 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:18			20:13			19:05	33	18:12 (EVE_WT01)	17:06	15	16:21 (EVE_WT02)	16:38	112	15:46 (KLZ_WT13)
11	05:42		06:26 (TEN_WT01)	06:24			07:13		07:38 (KLZ_WT01)	08:01		08:26 (KLZ_WT17)	07:54		08:23 (SAM_WT04)	08:38		09:10 (SAM_WT05)
	21:59	15	06:41 (TEN_WT01)	21:16			20:11	6	07:44 (KLZ_WT01)	19:03	36	18:14 (EVE_WT01)	17:04	20	16:23 (EVE_WT02)	16:38	114	15:47 (KLZ_WT13)
12	05:43		06:26 (TEN_WT01)	06:26			07:14		07:39 (KLZ_WT01)	08:02		08:28 (KLZ_WT17)	07:56		08:36 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	16	06:42 (TEN_WT01)	21:14			20:09	5	07:44 (KLZ_WT01)	19:01	35	18:16 (EVE_WT01)	17:03	26	16:23 (EVE_WT02)	16:38	113	15:48 (KLZ_WT13)
13	05:44		06:25 (TEN_WT01)	06:27			07:16		07:41 (KLZ_WT01)	08:04		08:29 (KLZ_WT17)	07:57		08:35 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	17	06:42 (TEN_WT01)	21:13			20:06	3	07:44 (KLZ_WT01)	18:59	34	18:16 (EVE_WT01)	17:01	31	16:24 (EVE_WT02)	16:38	114	15:48 (KLZ_WT13)
14	05:45		06:25 (TEN_WT01)	06:29			07:17		07:42 (KLZ_WT01)	08:06		08:31 (KLZ_WT17)	07:59		08:35 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:57	18	06:43 (TEN_WT01)	21:11			20:04	8	07:53 (KLZ_WT02)	18:57	30	18:17 (EVE_WT01)	17:00	37	16:24 (EVE_WT02)	16:38	114	15:49 (KLZ_WT13)
15	05:46		06:25 (TEN_WT01)	06:30			07:19		07:45 (KLZ_WT02)	08:07		17:53 (EVE_WT01)	08:01		08:34 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56	18	06:43 (TEN_WT01)	21:09			20:02	9	07:54 (KLZ_WT02)	18:55	25	18:18 (EVE_WT01)	16:59	48	16:25 (EVE_WT02)	16:38	114	15:50 (KLZ_WT13)
16	05:48		06:25 (TEN_WT01)	06:32		06:59 (SAM_WT10)	07:21		07:45 (KLZ_WT02)	08:09		17:52 (EVE_WT01)	08:03		08:34 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55	18	06:43 (TEN_WT01)	21:07	6	07:05 (SAM_WT10)	20:00	9	07:54 (KLZ_WT02)	18:52	26	18:18 (EVE_WT01)	16:57	55	16:26 (EVE_WT02)	16:38	115	15:50 (KLZ_WT13)
17	05:49		06:25 (TEN_WT01)	06:34		07:00 (SAM_WT10)	07:22		07:47 (KLZ_WT02)	08:11		17:51 (EVE_WT01)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54	19	06:44 (TEN_WT01)	21:05	6	07:06 (SAM_WT10)	19:57	7	07:54 (KLZ_WT02)	18:50	26	18:17 (EVE_WT01)	16:56	69	16:25 (EVE_WT02)	16:38	116	15:51 (KLZ_WT13)
18	05:50		06:24 (TEN_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:49 (KLZ_WT02)	08:12		08:50 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53	20	06:44 (TEN_WT01)	21:03	5	07:07 (SAM_WT10)	19:55	5	07:54 (KLZ_WT02)	18:48	35	18:17 (EVE_WT01)	16:55	71	16:24 (EVE_WT02)	16:39	119	15:51 (KLZ_WT13)
19	05:51		06:24 (TEN_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (KLZ_WT02)	08:14		08:49 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	20	06:44 (TEN_WT01)	21:01	4	07:07 (SAM_WT10)	19:53	2	07:52 (KLZ_WT02)	18:46	45	18:17 (EVE_WT01)	16:53	74	16:22 (EVE_WT02)	16:39	121	15:52 (KLZ_WT13)
20	05:52		06:24 (TEN_WT01)	06:38		07:05 (SAM_WT10)	07:27			08:16		08:48 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	20	06:44 (TEN_WT01)	20:59	3	07:08 (SAM_WT10)	19:50			18:44	52	18:16 (EVE_WT01)	16:52	75	16:21 (EVE_WT02)	16:39	122	15:53 (KLZ_WT13)
21	05:54		06:25 (TEN_WT01)	06:40		07:06 (SAM_WT10)	07:28			08:18		08:46 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	19	06:44 (TEN_WT01)	20:57	1	07:07 (SAM_WT10)	19:48			18:42	57	18:14 (EVE_WT01)	16:51	75	16:20 (EVE_WT02)	16:40	122	15:53 (KLZ_WT13)
22	05:55		06:25 (TEN_WT01)	06:41			07:30			08:19		08:46 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	19	06:44 (TEN_WT01)	20:55			19:46			18:40	57	18:12 (EVE_WT01)	16:50	74	16:19 (EVE_WT02)	16:40	121	15:53 (KLZ_WT13)
23	05:56		06:25 (TEN_WT01)	06:43			07:32			08:21		08:47 (SAM_WT06)	08:14		08:44 (SAM_WT07)	08:48		09:19 (SAM_WT05)
	21:47	19	06:44 (TEN_WT01)	20:53			19:44			18:38	56	18:10 (EVE_WT01)	16:49	72	16:17 (EVE_WT02)	16:41	122	15:54 (KLZ_WT13)
24	05:58		06:26 (TEN_WT01)	06:44			07:33			08:23		08:49 (SAM_WT06)	08:16		08:46 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:45	17	06:43 (TEN_WT01)	20:50			19:41			18:36	53	18:08 (EVE_WT01)	16:48	69	16:16 (EVE_WT02)	16:41	120	15:55 (KLZ_WT13)
25	05:59		06:28 (TEN_WT01)	06:46			07:35		08:28 (KLZ_WT17)	07:24		07:51 (SAM_WT06)	08:17		08:48 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:44	15	06:43 (TEN_WT01)	20:48			19:39	13	08:41 (KLZ_WT17)	17:34	47	17:06 (EVE_WT01)	16:47	67	16:15 (EVE_WT02)	16:42	120	15:55 (KLZ_WT13)
26	06:00		06:29 (TEN_WT01)	06:48			07:36		08:25 (KLZ_WT17)	07:26		07:53 (SAM_WT06)	08:19		09:18 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:43	13	06:42 (TEN_WT01)	20:46			19:37	18	08:43 (KLZ_WT17)	17:32	40	17:04 (EVE_WT01)	16:46	65	16:14 (EVE_WT02)	16:43	117	15:55 (KLZ_WT13)
27	06:02		06:30 (TEN_WT01)	06:49			07:38		08:24 (KLZ_WT17)	07:28		07:54 (SAM_WT06)	08:20		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:41	11	06:41 (TEN_WT01)	20:44			19:34	22	08:46 (KLZ_WT17)	17:30	33	08:51 (KLZ_WT05)	16:45	62	15:35 (KLZ_WT12)	16:43	115	15:55 (KLZ_WT13)
28	06:03		06:32 (EAM_WT01)	06:51			07:40		08:21 (KLZ_WT17)	07:30		07:56 (SAM_WT06)	08:22		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:40	9	06:41 (TEN_WT01)	20:42			19:32	25	08:46 (KLZ_WT17)	17:28	29	08:51 (KLZ_WT05)	16:44	64	15:36 (KLZ_WT12)	16:44	114	15:55 (KLZ_WT13)
29	06:05		06:33 (EAM_WT01)	06:52			07:41		08:20 (KLZ_WT17)	07:31		08:24 (KLZ_WT05)	08:23		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:38	6	06:39 (TEN_WT01)	20:40			19:30	27	08:47 (KLZ_WT17)	17:26	28	08:52 (KLZ_WT05)	16:43	64	15:36 (KLZ_WT12)	16:45	113	15:56 (KLZ_WT13)
30	06:06		06:34 (EAM_WT01)	06:54			07:43		08:18 (KLZ_WT17)	07:33		08:24 (KLZ_WT05)	08:25		09:19 (KLZ_WT23)	08:50		09:20 (SAM_WT05)
	21:37	2	06:36 (EAM_WT01)	20:38			19:28	29	08:47 (KLZ_WT17)	17:25	28	08:52 (KLZ_WT05)	16:43	66	15:37 (KLZ_WT12)	16:46	115	15:56 (KLZ_WT13)
31	06:08		06:36 (EAM_WT01)	06:55						07:35		08:24 (KLZ_WT05)				08:50		09:20 (SAM_WT05)
	21:35	1	06:37 (EAM_WT01)	20:35						17:23	27	08:51 (KLZ_WT05)				16:47	113	15:56 (KLZ_WT13)
Potential sun hours	498			452			380			333			269			248		
Total, worst case	390			25			188			1102			1384			3444		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,70			0,66			0,57			0,59			0,64			0,67		
Total reduction	0,30			0,30			0,24			0,21			0,17			0,15		
Total, real	119			7			46			230			231			507		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32		08:12 (SAM_WT06)	07:23			06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	144	14:59 (KLZ_WT20)	17:35	87	17:05 (EVE_WT02)	18:25	48	17:59 (EVE_WT01)	20:17			21:06	6	06:50 (SAM_WT10)	21:51	9	06:13 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		08:32 (KLZ_WT05)	07:21		07:43 (KLZ_WT02)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	146	14:59 (KLZ_WT20)	17:36	83	17:07 (EVE_WT02)	18:26	47	18:01 (EVE_WT01)	20:19	3	07:46 (KLZ_WT02)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		08:32 (KLZ_WT05)	07:19		07:41 (KLZ_WT02)	06:16		06:40 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	145	15:00 (KLZ_WT20)	17:38	77	17:09 (EVE_WT02)	18:28	50	18:03 (EVE_WT01)	20:20	6	07:47 (KLZ_WT02)	21:10	7	06:47 (SAM_WT10)	21:53	12	06:15 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:32 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:40 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	148	15:00 (KLZ_WT20)	17:40	56	17:11 (EVE_WT02)	18:30	54	18:05 (EVE_WT01)	20:22	8	07:47 (KLZ_WT02)	21:11	6	06:46 (SAM_WT10)	21:54	13	06:15 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:31 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	147	15:00 (KLZ_WT20)	17:42	59	17:13 (EVE_WT02)	18:32	55	18:06 (EVE_WT01)	20:24	10	07:47 (KLZ_WT02)	21:13			21:55	14	06:16 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:31 (KLZ_WT05)	07:12		07:34 (KLZ_WT01)	06:11			05:33		06:01 (TEN_WT01)
	16:54	149	16:20 (KLZ_WT13)	17:44	62	17:15 (EVE_WT02)	18:33	58	18:08 (EVE_WT01)	20:25	12	07:46 (KLZ_WT02)	21:14			21:56	15	06:16 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		08:32 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	151	16:22 (KLZ_WT13)	17:45	64	17:16 (EVE_WT02)	18:35	58	18:10 (EVE_WT01)	20:27	13	07:45 (KLZ_WT02)	21:16			21:57	16	06:17 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT11)	07:17		07:40 (SAM_WT08)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	155	16:23 (KLZ_WT13)	17:47	66	17:18 (EVE_WT02)	18:37	60	18:10 (EVE_WT01)	20:29	12	07:43 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:19 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	154	16:25 (KLZ_WT13)	17:49	66	17:18 (EVE_WT02)	18:39	62	18:10 (EVE_WT01)	20:30	7	07:35 (KLZ_WT01)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:20 (SAM_WT05)	08:09		08:35 (SAM_WT11)	07:13		07:35 (KLZ_WT17)	07:03		07:30 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	154	16:26 (KLZ_WT13)	17:51	63	17:17 (EVE_WT02)	18:40	65	18:09 (EVE_WT01)	20:32	3	07:33 (KLZ_WT01)	21:21			21:59	18	06:18 (TEN_WT01)
11	08:46		09:22 (SAM_WT05)	08:08		08:37 (SAM_WT11)	07:10		07:33 (KLZ_WT17)	07:01			06:03			05:31		06:00 (TEN_WT01)
	17:00	148	16:27 (KLZ_WT13)	17:53	57	17:16 (EVE_WT02)	18:42	66	18:08 (EVE_WT01)	20:34			21:22			22:00	19	06:19 (TEN_WT01)
12	08:46		09:37 (KLZ_WT23)	08:06		16:21 (KLZ_WT12)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	149	16:29 (KLZ_WT13)	17:54	49	17:15 (EVE_WT02)	18:44	63	18:07 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		09:37 (KLZ_WT23)	08:04		16:21 (KLZ_WT12)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	149	16:31 (KLZ_WT13)	17:56	45	17:13 (EVE_WT02)	18:45	60	18:06 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		09:37 (KLZ_WT23)	08:02		16:22 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:00 (TEN_WT01)
	17:05	148	16:32 (KLZ_WT13)	17:58	35	17:09 (EVE_WT02)	18:47	54	18:04 (EVE_WT01)	20:38			21:27			22:02	19	06:19 (TEN_WT01)
15	08:44		09:38 (KLZ_WT23)	08:00		16:23 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:00 (TEN_WT01)
	17:06	148	16:34 (KLZ_WT13)	18:00	31	16:54 (KLZ_WT12)	18:49	41	18:02 (EVE_WT01)	20:40			21:28			22:02	20	06:20 (TEN_WT01)
16	08:43		09:38 (KLZ_WT23)	07:58		16:24 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	146	16:35 (KLZ_WT13)	18:02	29	16:53 (KLZ_WT12)	18:50	31	07:53 (KLZ_WT17)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		09:38 (KLZ_WT23)	07:57		16:26 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53		06:19 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:09	147	16:37 (KLZ_WT13)	18:03	26	16:52 (KLZ_WT12)	18:52	34	07:53 (KLZ_WT17)	20:43			21:31	1	06:20 (EAM_WT02)	22:03	19	06:20 (TEN_WT01)
18	08:41		09:39 (KLZ_WT23)	07:55		08:18 (SAM_WT06)	06:55		07:17 (KLZ_WT17)	06:46			05:52		06:18 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:11	144	16:39 (KLZ_WT13)	18:05	24	16:50 (KLZ_WT12)	18:54	36	07:53 (KLZ_WT17)	20:45			21:33	1	06:19 (EAM_WT02)	22:04	19	06:20 (TEN_WT01)
19	08:40		09:39 (KLZ_WT23)	07:53		08:16 (SAM_WT06)	06:53		07:17 (KLZ_WT17)	06:44			05:51			05:29		06:01 (TEN_WT01)
	17:12	140	16:39 (KLZ_WT13)	18:07	26	16:48 (KLZ_WT12)	18:55	36	07:53 (KLZ_WT17)	20:47			21:34			22:04	20	06:21 (TEN_WT01)
20	08:39		09:07 (SAM_WT07)	07:51		08:14 (SAM_WT06)	06:50		07:16 (KLZ_WT17)	06:42			05:49		06:16 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:14	137	16:40 (KLZ_WT13)	18:09	35	16:45 (KLZ_WT12)	18:57	37	07:53 (KLZ_WT17)	20:48			21:35	1	06:17 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
21	08:38		09:05 (SAM_WT07)	07:49		08:12 (SAM_WT06)	06:48		07:16 (KLZ_WT17)	06:40			05:48		06:14 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:16	133	16:40 (KLZ_WT13)	18:11	32	09:02 (KLZ_WT05)	18:59	36	07:52 (KLZ_WT17)	20:50			21:37	2	06:16 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
22	08:37		09:04 (SAM_WT07)	07:47		08:10 (SAM_WT06)	06:46		07:16 (KLZ_WT17)	06:38			05:47		06:13 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:17	119	16:40 (KLZ_WT13)	18:12	39	09:04 (KLZ_WT05)	19:00	36	07:52 (KLZ_WT17)	20:52			21:38	3	06:16 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
23	08:36		09:03 (SAM_WT07)	07:45		08:08 (SAM_WT06)	06:44		07:16 (KLZ_WT17)	06:36			05:46		06:12 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:19	119	16:42 (KLZ_WT12)	18:14	44	09:05 (KLZ_WT05)	19:02	35	07:51 (KLZ_WT17)	20:53			21:40	3	06:15 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:07 (SAM_WT06)	06:41		07:16 (KLZ_WT17)	06:34			05:44		06:11 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:21	121	16:45 (KLZ_WT12)	18:16	47	09:06 (KLZ_WT05)	19:04	35	07:51 (KLZ_WT17)	20:55			21:41	3	06:14 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:08 (SAM_WT06)	06:39		07:16 (KLZ_WT17)	06:32			05:43		06:10 (EAM_WT01)	05:31		06:03 (TEN_WT01)
	17:22	122	16:46 (KLZ_WT12)	18:18	48	09:07 (KLZ_WT05)	19:05	33	07:49 (KLZ_WT17)	20:57			21:42	3	06:13 (EAM_WT01)	22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:08 (SAM_WT06)	06:37		07:17 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	120	16:48 (KLZ_WT12)	18:19	49	09:08 (KLZ_WT05)	19:07	31	07:48 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:09 (SAM_WT06)	06:35		07:18 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	117	16:49 (KLZ_WT12)	18:21	49	09:09 (KLZ_WT05)	19:09	29	07:47 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:57 (SAM_WT07)	07:34		08:10 (SAM_WT06)	06:32		07:18 (KLZ_WT17)	06:26		06:49 (SAM_WT10)	05:40			05:32		06:03 (TEN_WT01)
	17:28	115	16:51 (KLZ_WT12)	18:23	46	09:08 (KLZ_WT05)	19:10	26	07:44 (KLZ_WT17)	21:01	1	06:50 (SAM_WT10)	21:46			22:05	20	06:23 (TEN_WT01)
29	08:28		08:57 (SAM_WT07)				07:30		08:20 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	109	16:52 (KLZ_WT12)				20:12	22	08:42 (KLZ_WT17)	21:03	3	06:51 (SAM_WT10)	21:47	1	06:08 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:58 (SAM_WT07)				07:28		08:22 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	101	16:53 (KLZ_WT12)				20:14	18	08:40 (KLZ_WT17)	21:05	4	06:50 (SAM_WT10)	21:48	5	06:11 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:58 (SAM_WT07)				07:25		08:25 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	89	17:03 (EVE_WT02)				20:15	11	08:36 (KLZ_WT17)				21:49	7	06:12 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		4214			1394			1327			82			55			531	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,66			0,66			0,59			0,64			0,69			0,71	
Total reduction		0,16			0,19			0,22			0,29			0,31			0,31	
Total, real		671			269			289			24			17			162	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:
WP Kluizendok v1

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57			07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		09:18 (KLZ_WT23)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33			19:25	63	18:46 (EVE_WT01)	17:21	65	16:47 (EVE_WT02)	16:42	150	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:28 (KLZ_WT01)	07:46		08:11 (KLZ_WT17)	07:38		08:06 (SAM_WT11)	08:27		09:03 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	3	07:31 (KLZ_WT01)	19:23	64	18:47 (EVE_WT01)	17:19	67	16:48 (EVE_WT02)	16:41	153	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (KLZ_WT17)	07:40		08:08 (SAM_WT11)	08:29		09:02 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	7	07:33 (KLZ_WT01)	19:21	65	18:46 (EVE_WT01)	17:17	66	16:48 (EVE_WT02)	16:41	154	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT11)	08:30		09:02 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:29			20:27	12	07:40 (KLZ_WT02)	19:19	64	18:47 (EVE_WT01)	17:16	64	16:46 (EVE_WT02)	16:40	155	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:16 (SAM_WT08)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	13	07:42 (KLZ_WT02)	19:16	60	18:47 (EVE_WT01)	17:14	61	16:44 (EVE_WT02)	16:40	153	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:16			07:05		07:30 (KLZ_WT01)	07:53		08:17 (SAM_WT08)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	12	07:42 (KLZ_WT02)	19:14	60	18:46 (EVE_WT01)	17:12	58	16:42 (EVE_WT02)	16:39	149	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		09:07 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	10	07:42 (KLZ_WT02)	19:12	59	18:45 (EVE_WT01)	17:11	59	16:41 (EVE_WT02)	16:39	146	14:47 (KLZ_WT20)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		09:07 (KLZ_WT05)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	8	07:41 (KLZ_WT02)	19:10	57	18:43 (EVE_WT01)	17:09	76	16:39 (EVE_WT02)	16:39	147	14:48 (KLZ_WT20)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10		07:35 (KLZ_WT02)	07:57		09:06 (KLZ_WT05)	07:50		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	7	06:56 (SAM_WT10)	20:15	6	07:41 (KLZ_WT02)	19:08	55	18:40 (EVE_WT01)	17:07	83	16:38 (EVE_WT02)	16:38	145	14:48 (KLZ_WT20)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		07:36 (KLZ_WT02)	07:59		09:06 (KLZ_WT05)	07:52		08:31 (SAM_WT07)	08:37		09:09 (SAM_WT05)
	22:00	11	06:22 (TEN_WT01)	21:18	7	06:57 (SAM_WT10)	20:13	3	07:39 (KLZ_WT02)	19:05	52	18:38 (EVE_WT01)	17:06	87	16:36 (EVE_WT02)	16:38	146	14:48 (KLZ_WT20)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13			08:01		09:06 (KLZ_WT05)	07:54		08:30 (SAM_WT07)	08:38		09:10 (SAM_WT05)
	21:59	10	06:22 (TEN_WT01)	21:16	6	06:57 (SAM_WT10)	20:11			19:03	49	18:36 (EVE_WT01)	17:04	92	16:35 (EVE_WT02)	16:38	144	14:49 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:17 (KLZ_WT17)	08:02		09:06 (KLZ_WT05)	07:56		08:29 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	8	06:21 (TEN_WT01)	21:14	5	06:58 (SAM_WT10)	20:09	10	08:27 (KLZ_WT17)	19:01	45	18:34 (EVE_WT01)	17:03	101	16:24 (KLZ_WT12)	16:38	144	14:49 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:14 (KLZ_WT17)	08:04		08:44 (SAM_WT06)	07:57		08:29 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	6	06:20 (TEN_WT01)	21:13	4	06:58 (SAM_WT10)	20:06	17	08:31 (KLZ_WT17)	18:59	47	18:31 (EVE_WT01)	17:01	109	16:24 (KLZ_WT12)	16:38	144	14:50 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:10 (KLZ_WT17)	08:06		08:42 (SAM_WT06)	07:59		08:29 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:56	4	06:19 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	22	08:32 (KLZ_WT17)	18:57	47	09:41 (KLZ_WT05)	17:00	115	16:23 (KLZ_WT12)	16:38	143	14:50 (KLZ_WT20)
15	05:46			06:30		06:57 (SAM_WT10)	07:19		08:09 (KLZ_WT17)	08:07		08:41 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56			21:09	1	06:58 (SAM_WT10)	20:02	25	08:34 (KLZ_WT17)	18:55	49	09:41 (KLZ_WT05)	16:59	117	16:22 (KLZ_WT12)	16:38	142	14:51 (KLZ_WT20)
16	05:48			06:32			07:21		08:07 (KLZ_WT17)	08:09		08:39 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55			21:07			20:00	28	08:35 (KLZ_WT17)	18:52	50	09:39 (KLZ_WT05)	16:57	120	16:21 (KLZ_WT12)	16:38	142	14:52 (KLZ_WT20)
17	05:49			06:33			07:22		08:05 (KLZ_WT17)	08:11		08:39 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54			21:05			19:57	31	08:36 (KLZ_WT17)	18:50	48	09:38 (KLZ_WT05)	16:56	122	16:20 (KLZ_WT12)	16:38	139	14:52 (KLZ_WT20)
18	05:50			06:35			07:24		08:04 (KLZ_WT17)	08:12		08:39 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53			21:03			19:55	32	08:36 (KLZ_WT17)	18:48	45	09:37 (KLZ_WT05)	16:55	121	16:19 (KLZ_WT12)	16:39	141	14:52 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37			07:25		08:03 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	3	06:23 (EAM_WT01)	21:01			19:53	34	08:37 (KLZ_WT17)	18:46	42	09:36 (KLZ_WT05)	16:53	119	16:16 (KLZ_WT12)	16:39	141	14:53 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38			07:27		08:03 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	3	06:24 (EAM_WT01)	20:59			19:50	35	08:38 (KLZ_WT17)	18:44	36	09:34 (KLZ_WT05)	16:52	119	16:15 (KLZ_WT13)	16:39	141	14:54 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40			07:28		08:01 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	3	06:26 (EAM_WT01)	20:57			19:48	36	08:37 (KLZ_WT17)	18:42	29	09:31 (KLZ_WT05)	16:51	133	16:16 (KLZ_WT13)	16:40	141	14:54 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41			07:30		08:01 (KLZ_WT17)	08:19		08:45 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	2	06:26 (EAM_WT01)	20:55			19:46	37	08:38 (KLZ_WT17)	18:40	32	17:16 (KLZ_WT12)	16:50	137	16:16 (KLZ_WT13)	16:40	141	14:55 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43			07:32		08:00 (KLZ_WT17)	08:21		08:47 (SAM_WT06)	08:14		09:15 (KLZ_WT23)	08:48		09:19 (SAM_WT05)
	21:47	1	06:26 (EAM_WT01)	20:53			19:44	37	08:37 (KLZ_WT17)	18:38	24	17:19 (KLZ_WT12)	16:49	141	16:16 (KLZ_WT13)	16:41	141	14:55 (KLZ_WT20)
24	05:58			06:44			07:33		08:00 (KLZ_WT17)	08:23		16:57 (KLZ_WT12)	08:16		09:16 (KLZ_WT23)	08:48		09:19 (SAM_WT05)
	21:45			20:50			19:41	37	08:37 (KLZ_WT17)	18:36	24	17:21 (KLZ_WT12)	16:48	144	16:16 (KLZ_WT13)	16:41	141	14:55 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46			07:35		07:59 (KLZ_WT17)	07:24		15:56 (KLZ_WT12)	08:17		09:16 (KLZ_WT23)	08:48		09:20 (SAM_WT05)
	21:44	1	06:29 (EAM_WT02)	20:48			19:39	37	08:36 (KLZ_WT17)	17:34	26	16:22 (KLZ_WT12)	16:47	146	16:15 (KLZ_WT13)	16:42	141	14:56 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48			07:36		08:01 (KLZ_WT17)	07:26		15:54 (KLZ_WT12)	08:19		09:16 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:43	1	06:30 (EAM_WT02)	20:46			19:37	35	08:36 (KLZ_WT17)	17:32	30	16:24 (KLZ_WT12)	16:46	147	16:14 (KLZ_WT13)	16:43	140	14:56 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:52 (KLZ_WT12)	08:20		09:17 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:41			20:44			19:34	32	08:35 (KLZ_WT17)	17:30	32	16:24 (KLZ_WT12)	16:45	148	16:13 (KLZ_WT13)	16:43	140	14:56 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:51 (KLZ_WT12)	08:22		09:18 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:40			20:42			19:32	39	18:41 (EVE_WT01)	17:28	39	16:40 (EVE_WT02)	16:44	148	16:12 (KLZ_WT13)	16:44	143	14:57 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		15:51 (KLZ_WT12)	08:23		09:17 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:38			20:40			19:30	50	18:44 (EVE_WT01)	17:26	45	16:43 (EVE_WT02)	16:43	149	16:11 (KLZ_WT13)	16:45	141	14:57 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		15:50 (KLZ_WT12)	08:25		09:18 (KLZ_WT23)	08:50		09:20 (SAM_WT05)
	21:37			20:38			19:28	59	18:45 (EVE_WT01)	17:25	51	16:45 (EVE_WT02)	16:43	149	16:10 (KLZ_WT13)	16:46	144	14:58 (KLZ_WT20)
31	06:08			06:55						07:35		08:06 (SAM_WT11)				08:50		09:20 (SAM_WT05)
	21:35			20:35						17:23	59	16:46 (EVE_WT02)				16:47	143	14:58 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		200			32			707			1448			3263			4475	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,67			0,59			0,61			0,67			0,65	
Total reduction		0,31			0,31			0,25			0,22			0,17			0,14	
Total, real		62			10			177			312			569			643	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (SAM_WT06)	08:24		17:01 (KLZ_WT12)	07:32		08:26 (KLZ_WT02)	07:23			06:20		06:52 (SAM_WT10)	05:36		06:07 (EAM_WT01)
	16:48	122	16:14 (KLZ_WT20)	17:35	4	17:05 (KLZ_WT12)	18:25	18	08:44 (KLZ_WT02)	20:17			21:06	12	07:04 (SAM_WT10)	21:51	10	06:17 (EAM_WT01)
2	08:50		09:33 (SAM_WT06)	08:23		17:00 (KLZ_WT12)	07:30		08:28 (KLZ_WT02)	07:21			06:18		06:54 (SAM_WT10)	05:35		06:07 (EAM_WT01)
	16:49	121	16:15 (KLZ_WT20)	17:36	7	17:07 (KLZ_WT12)	18:26	14	08:42 (KLZ_WT02)	20:19			21:08	7	07:01 (SAM_WT10)	21:52	10	06:17 (EAM_WT01)
3	08:49		09:33 (SAM_WT06)	08:21		17:00 (KLZ_WT12)	07:28		08:30 (KLZ_WT02)	07:19			06:16			05:35		06:09 (EAM_WT01)
	16:50	120	16:17 (KLZ_WT20)	17:38	9	17:09 (KLZ_WT12)	18:28	10	08:40 (KLZ_WT02)	20:20			21:09			21:53	8	06:17 (EAM_WT01)
4	08:49		09:33 (SAM_WT06)	08:19		17:01 (KLZ_WT12)	07:26			07:16		07:39 (SAM_WT01)	06:15			05:34		06:09 (EAM_WT01)
	16:51	119	16:17 (KLZ_WT20)	17:40	10	17:11 (EVE_WT02)	18:30			20:22	2	07:41 (SAM_WT01)	21:11			21:54	7	06:16 (EAM_WT01)
5	08:49		09:34 (SAM_WT06)	08:18		17:01 (KLZ_WT12)	07:24			07:14		07:37 (SAM_WT01)	06:13			05:33		06:11 (EAM_WT01)
	16:52	117	16:19 (KLZ_WT20)	17:42	12	17:13 (EVE_WT02)	18:32			20:24	2	07:39 (SAM_WT01)	21:13			21:55	4	06:15 (EAM_WT01)
6	08:49		09:34 (SAM_WT06)	08:16		17:01 (KLZ_WT12)	07:21			07:12			06:11			05:33		
	16:54	114	16:20 (KLZ_WT20)	17:44	14	17:15 (EVE_WT02)	18:33			20:25			21:14			21:56		
7	08:48		09:35 (SAM_WT06)	08:15		17:02 (KLZ_WT12)	07:19		07:44 (KLZ_WT01)	07:10			06:09			05:32		
	16:55	110	16:22 (KLZ_WT20)	17:45	14	17:16 (EVE_WT02)	18:35	9	07:53 (KLZ_WT01)	20:27			21:16			21:56		
8	08:48		09:35 (SAM_WT06)	08:13		17:04 (KLZ_WT12)	07:17		07:42 (KLZ_WT01)	07:08			06:07			05:32		
	16:56	104	16:22 (KLZ_WT20)	17:47	15	17:19 (EVE_WT02)	18:37	13	07:55 (KLZ_WT01)	20:29			21:17			21:57		
9	08:48		09:37 (SAM_WT06)	08:11		17:05 (KLZ_WT12)	07:15		07:41 (KLZ_WT01)	07:05			06:06			05:31		
	16:57	104	16:25 (KLZ_WT20)	17:49	14	17:20 (EVE_WT02)	18:38	15	07:56 (KLZ_WT01)	20:30			21:19			21:58		
10	08:47		09:37 (SAM_WT06)	08:09			07:13		07:39 (KLZ_WT01)	07:03			06:04			05:31		
	16:59	103	16:26 (KLZ_WT20)	17:51			18:40	17	07:56 (KLZ_WT01)	20:32			21:21			21:59		
11	08:46		09:37 (SAM_WT06)	08:08			07:10		07:39 (KLZ_WT01)	07:01			06:03			05:30		
	17:00	102	16:27 (KLZ_WT20)	17:53			18:42	17	07:56 (KLZ_WT01)	20:33			21:22			22:00		
12	08:46		09:39 (SAM_WT06)	08:06			07:08		07:39 (KLZ_WT01)	06:59			06:01		06:26 (EAM_WT03)	05:30		
	17:02	98	16:29 (KLZ_WT20)	17:54			18:44	17	07:56 (KLZ_WT01)	20:35			21:24	2	06:28 (EAM_WT03)	22:00		
13	08:45		09:39 (SAM_WT06)	08:04			07:06		07:38 (KLZ_WT01)	06:57			05:59		06:25 (EAM_WT03)	05:30		
	17:03	95	16:31 (KLZ_WT20)	17:56			18:45	17	07:55 (KLZ_WT01)	20:37			21:25	3	06:28 (EAM_WT03)	22:01		
14	08:44		09:40 (SAM_WT06)	08:02		08:26 (SAM_WT08)	07:04		07:38 (KLZ_WT01)	06:55			05:58		06:23 (EAM_WT03)	05:30		
	17:05	88	16:32 (KLZ_WT20)	17:58	1	08:27 (SAM_WT08)	18:47	16	07:54 (KLZ_WT01)	20:38			21:27	4	06:27 (EAM_WT03)	22:02		
15	08:44		09:41 (SAM_WT06)	08:00		08:24 (SAM_WT08)	07:02		07:39 (KLZ_WT01)	06:52		07:15 (SAM_WT09)	05:56		06:22 (EAM_WT02)	05:30		
	17:06	86	16:34 (KLZ_WT20)	18:00	3	08:27 (SAM_WT08)	18:49	14	07:53 (KLZ_WT01)	20:40	1	07:16 (SAM_WT09)	21:28	5	06:27 (EAM_WT03)	22:02		
16	08:43		09:42 (SAM_WT06)	07:58		08:22 (SAM_WT08)	06:59		07:22 (SWB_WT01_RP)	06:50		07:13 (SAM_WT09)	05:55		06:21 (EAM_WT02)	05:29		
	17:08	83	16:35 (KLZ_WT20)	18:02	11	08:40 (KLZ_WT02)	18:50	11	07:51 (KLZ_WT01)	20:42	2	07:15 (SAM_WT09)	21:30	5	06:26 (EAM_WT03)	22:03		
17	08:42		09:44 (SAM_WT06)	07:56		08:20 (SAM_WT08)	06:57		07:19 (SWB_WT01_RP)	06:48		07:11 (SAM_WT09)	05:53		06:19 (EAM_WT02)	05:29		
	17:09	78	16:36 (KLZ_WT20)	18:03	18	08:43 (KLZ_WT02)	18:52	4	07:46 (KLZ_WT01)	20:43	3	07:14 (SAM_WT09)	21:31	4	06:23 (EAM_WT02)	22:03		
18	08:41		09:46 (SAM_WT06)	07:55		08:18 (SAM_WT08)	06:55		07:17 (SAM_WT02)	06:46		07:09 (SAM_WT09)	05:52		06:18 (EAM_WT02)	05:29		
	17:11	71	16:37 (KLZ_WT20)	18:05	23	08:45 (KLZ_WT02)	18:54	1	07:18 (SAM_WT02)	20:45	3	07:12 (SAM_WT09)	21:33	6	06:24 (EAM_WT02)	22:03		
19	08:40		09:50 (SAM_WT06)	07:53		08:17 (SAM_WT08)	06:53		07:15 (SAM_WT02)	06:44		07:07 (SAM_WT10)	05:51		06:17 (EAM_WT02)	05:29		
	17:12	61	16:37 (KLZ_WT20)	18:07	25	08:46 (KLZ_WT02)	18:55	3	07:18 (SAM_WT02)	20:47	1	07:08 (SAM_WT10)	21:34	7	06:24 (EAM_WT02)	22:04		
20	08:39		11:31 (KLZ_WT17)	07:51		08:26 (KLZ_WT02)	06:50		07:13 (SAM_WT02)	06:42		07:05 (SAM_WT10)	05:49		06:16 (EAM_WT01)	05:29		
	17:14	52	16:37 (KLZ_WT20)	18:09	22	17:42 (EVE_WT01)	18:57	4	07:17 (SAM_WT02)	20:48	4	07:09 (SAM_WT10)	21:35	8	06:24 (EAM_WT02)	22:04		
21	08:38		11:33 (KLZ_WT17)	07:49		08:26 (KLZ_WT02)	06:48		07:11 (SAM_WT02)	06:40		07:03 (SAM_WT10)	05:48		06:14 (EAM_WT01)	05:30		
	17:16	46	16:37 (KLZ_WT20)	18:11	26	17:44 (EVE_WT01)	18:59	3	07:14 (SAM_WT02)	20:50	6	07:09 (SAM_WT10)	21:37	8	06:22 (EAM_WT02)	22:04		
22	08:37		11:39 (KLZ_WT17)	07:47		08:25 (KLZ_WT02)	06:46		07:08 (SAM_WT03)	06:38		07:01 (SAM_WT10)	05:47		06:13 (EAM_WT01)	05:30		
	17:17	34	16:37 (KLZ_WT20)	18:12	29	17:46 (EVE_WT01)	19:00	2	07:10 (SAM_WT03)	20:52	9	07:10 (SAM_WT10)	21:38	8	06:21 (EAM_WT02)	22:05		
23	08:36		16:12 (KLZ_WT20)	07:45		08:25 (KLZ_WT02)	06:44		07:06 (SAM_WT03)	06:36		06:59 (SAM_WT10)	05:45		06:12 (EAM_WT01)	05:30		
	17:19	25	16:37 (KLZ_WT20)	18:14	32	17:48 (EVE_WT01)	19:02	4	07:10 (SAM_WT03)	20:53	11	07:10 (SAM_WT10)	21:40	8	06:20 (EAM_WT02)	22:05		
24	08:35		16:13 (KLZ_WT20)	07:43		08:25 (KLZ_WT02)	06:41		07:03 (SAM_WT03)	06:34		06:57 (SAM_WT10)	05:44		06:11 (EAM_WT01)	05:30		
	17:21	24	16:37 (KLZ_WT20)	18:16	33	17:50 (EVE_WT01)	19:04	6	07:09 (SAM_WT03)	20:55	13	07:10 (SAM_WT10)	21:41	7	06:18 (EAM_WT01)	22:05		
25	08:34		16:13 (KLZ_WT20)	07:41		08:25 (KLZ_WT02)	06:39		07:01 (SAM_WT03)	06:32		06:55 (SAM_WT10)	05:43		06:10 (EAM_WT01)	05:31		
	17:22	24	16:51 (KLZ_WT13)	18:18	34	17:52 (EVE_WT01)	19:05	7	07:08 (SAM_WT03)	20:56	14	07:09 (SAM_WT10)	21:42	8	06:18 (EAM_WT01)	22:05		
26	08:32		16:15 (KLZ_WT20)	07:38		08:25 (KLZ_WT02)	06:37		07:01 (SAM_WT03)	06:30		06:53 (SAM_WT10)	05:42		06:09 (EAM_WT01)	05:31		
	17:24	24	16:54 (KLZ_WT13)	18:19	31	17:51 (EVE_WT01)	19:07	5	07:06 (SAM_WT03)	20:58	16	07:09 (SAM_WT10)	21:43	9	06:18 (EAM_WT01)	22:05		
27	08:31		16:16 (KLZ_WT20)	07:36		08:26 (KLZ_WT02)	06:34			06:28		06:51 (SAM_WT10)	05:41		06:08 (EAM_WT01)	05:31		
	17:26	23	16:55 (KLZ_WT13)	18:21	21	08:47 (KLZ_WT02)	19:09			21:00	17	07:08 (SAM_WT10)	21:45	10	06:18 (EAM_WT01)	22:05		
28	08:30		16:18 (KLZ_WT20)	07:34		08:25 (KLZ_WT02)	06:32			06:26		06:49 (SAM_WT10)	05:40		06:07 (EAM_WT01)	05:32		
	17:27	22	16:57 (KLZ_WT13)	18:23	21	08:46 (KLZ_WT02)	19:10			21:01	18	07:07 (SAM_WT10)	21:46	11	06:18 (EAM_WT01)	22:05		
29	08:28		16:20 (KLZ_WT20)				07:30		07:52 (SWB_WT02_RP)	06:24		06:50 (SAM_WT10)	05:39		06:06 (EAM_WT01)	05:32		
	17:29	19	16:59 (KLZ_WT13)				20:12	1	07:53 (SWB_WT02_RP)	21:03	17	07:07 (SAM_WT10)	21:47	12	06:18 (EAM_WT01)	22:05		
30	08:27		16:24 (KLZ_WT20)				07:28		07:50 (SWB_WT02_RP)	06:22		06:51 (SAM_WT10)	05:38		06:06 (EAM_WT01)	05:33		
	17:31	13	17:01 (KLZ_WT13)				20:14	1	07:51 (SWB_WT02_RP)	21:05	15	07:06 (SAM_WT10)	21:48	12	06:18 (EAM_WT01)	22:04		
31	08:25		16:55 (KLZ_WT13)				07:25						05:37		06:07 (EAM_WT01)			
	17:33	8	17:03 (KLZ_WT12)				20:15						21:49	11	06:18 (EAM_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2210			429			229			154			167			39	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,64			0,60			0,57			0,65			0,70			0,70	
Total reduction		0,15			0,18			0,21			0,30			0,31			0,30	
Total, real		342			76			48			45			52			12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (EAM_WT03)	06:57			07:44		08:17 (KLZ_WT01)	07:37		16:38 (KLZ_WT12)	08:26		09:19 (SAM_WT06)
	22:04			21:34	1	06:38 (EAM_WT03)	20:33			19:25	18	08:35 (KLZ_WT01)	17:21	2	16:40 (KLZ_WT12)	16:42	102	16:09 (KLZ_WT20)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT01)	07:38		16:35 (KLZ_WT12)	08:27		09:20 (SAM_WT06)
	22:04			21:32			20:31			19:23	18	08:35 (KLZ_WT01)	17:19	15	16:50 (EVE_WT02)	16:41	103	16:09 (KLZ_WT20)
3	05:35			06:12			07:00			07:48		08:17 (KLZ_WT01)	07:40		16:32 (KLZ_WT12)	08:29		09:20 (SAM_WT06)
	22:04			21:30			20:29			19:21	17	08:34 (KLZ_WT01)	17:17	16	16:48 (EVE_WT02)	16:41	104	16:08 (KLZ_WT20)
4	05:36			06:13			07:02			07:49		08:17 (KLZ_WT01)	07:42		16:31 (KLZ_WT12)	08:30		09:20 (SAM_WT06)
	22:03			21:29			20:27			19:19	16	08:33 (KLZ_WT01)	17:16	15	16:46 (EVE_WT02)	16:40	105	16:08 (KLZ_WT20)
5	05:37			06:15			07:03			07:51		08:18 (KLZ_WT01)	07:43		16:31 (KLZ_WT12)	08:31		09:20 (SAM_WT06)
	22:03			21:27			20:24			19:16	14	08:32 (KLZ_WT01)	17:14	13	16:44 (EVE_WT02)	16:40	109	16:07 (KLZ_WT20)
6	05:37			06:16			07:05			07:53		08:19 (KLZ_WT01)	07:45		16:30 (KLZ_WT12)	08:33		09:20 (SAM_WT06)
	22:02			21:25			20:22			19:14	11	08:30 (KLZ_WT01)	17:12	12	16:42 (EVE_WT02)	16:39	114	16:06 (KLZ_WT20)
7	05:38		06:18 (EAM_WT01)	06:18			07:06		07:32 (SAM_WT01)	07:54		08:21 (KLZ_WT01)	07:47		16:30 (KLZ_WT12)	08:34		09:21 (SAM_WT06)
	22:02	3	06:21 (EAM_WT01)	21:24			20:20	2	07:34 (SAM_WT01)	19:12	7	08:28 (KLZ_WT01)	17:11	11	16:41 (EVE_WT02)	16:39	116	16:06 (KLZ_WT20)
8	05:39		06:17 (EAM_WT01)	06:19			07:08		07:33 (SAM_WT01)	07:56			07:49		16:31 (KLZ_WT12)	08:35		09:21 (SAM_WT06)
	22:01	6	06:23 (EAM_WT01)	21:22			20:18	2	07:35 (SAM_WT01)	19:10			17:09	8	16:39 (KLZ_WT12)	16:39	118	16:05 (KLZ_WT20)
9	05:40		06:16 (EAM_WT01)	06:21			07:10			07:57			07:50		16:31 (KLZ_WT12)	08:36		09:21 (SAM_WT06)
	22:00	8	06:24 (EAM_WT01)	21:20			20:15			19:08			17:07	7	16:38 (KLZ_WT12)	16:38	121	16:05 (KLZ_WT20)
10	05:41		06:16 (EAM_WT01)	06:23			07:11			07:59		09:07 (KLZ_WT02)	07:52		16:32 (KLZ_WT12)	08:37		09:22 (SAM_WT06)
	22:00	9	06:25 (EAM_WT01)	21:18			20:13			19:05	4	09:11 (KLZ_WT02)	17:06	4	16:36 (KLZ_WT12)	16:38	120	16:04 (KLZ_WT20)
11	05:42		06:16 (EAM_WT01)	06:24		07:02 (SAM_WT10)	07:13			08:01		09:03 (KLZ_WT02)	07:54		16:26 (KLZ_WT13)	08:38		09:22 (SAM_WT06)
	21:59	10	06:26 (EAM_WT01)	21:16	9	07:11 (SAM_WT10)	20:11			19:03	12	09:15 (KLZ_WT02)	17:04	9	16:35 (KLZ_WT12)	16:38	122	16:04 (KLZ_WT20)
12	05:43		06:15 (EAM_WT01)	06:26		07:00 (SAM_WT10)	07:14			08:02		09:00 (KLZ_WT02)	07:56		15:54 (KLZ_WT20)	08:39		09:22 (SAM_WT06)
	21:58	11	06:26 (EAM_WT01)	21:14	13	07:13 (SAM_WT10)	20:09			19:01	16	09:16 (KLZ_WT02)	17:03	14	16:32 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
13	05:44		06:15 (EAM_WT01)	06:27		06:58 (SAM_WT10)	07:16		07:41 (SWB_WT02_RP)	08:04		08:59 (KLZ_WT02)	07:57		15:51 (KLZ_WT20)	08:40		09:23 (SAM_WT06)
	21:57	12	06:27 (EAM_WT01)	21:13	16	07:14 (SAM_WT10)	20:06	1	07:42 (SWB_WT02_RP)	18:59	19	09:18 (KLZ_WT02)	17:01	20	16:31 (KLZ_WT13)	16:38	125	16:04 (KLZ_WT20)
14	05:45		06:15 (EAM_WT01)	06:29		06:58 (SAM_WT10)	07:17		07:42 (SWB_WT02_RP)	08:06		08:58 (KLZ_WT02)	07:59		15:50 (KLZ_WT20)	08:41		09:23 (SAM_WT06)
	21:56	12	06:27 (EAM_WT01)	21:11	17	07:15 (SAM_WT10)	20:04	1	07:43 (SWB_WT02_RP)	18:57	21	09:19 (KLZ_WT02)	17:00	22	16:29 (KLZ_WT13)	16:38	123	16:04 (KLZ_WT20)
15	05:46		06:16 (EAM_WT01)	06:30		06:57 (SAM_WT10)	07:19			08:07		08:58 (KLZ_WT02)	08:01		15:49 (KLZ_WT20)	08:42		09:24 (SAM_WT06)
	21:56	11	06:27 (EAM_WT01)	21:09	18	07:15 (SAM_WT10)	20:02			18:55	27	18:22 (EVE_WT01)	16:58	23	16:28 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
16	05:47		06:17 (EAM_WT01)	06:32		06:59 (SAM_WT10)	07:21			08:09		08:56 (KLZ_WT02)	08:02		15:48 (KLZ_WT20)	08:43		09:25 (SAM_WT06)
	21:55	11	06:28 (EAM_WT01)	21:07	17	07:16 (SAM_WT10)	19:59			18:52	32	18:23 (EVE_WT01)	16:57	24	16:27 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
17	05:49		06:18 (EAM_WT01)	06:33		07:00 (SAM_WT10)	07:22		07:50 (SAM_WT03)	08:11		08:56 (KLZ_WT02)	08:04		15:47 (KLZ_WT20)	08:44		09:25 (SAM_WT06)
	21:54	10	06:28 (EAM_WT01)	21:05	16	07:16 (SAM_WT10)	19:57	4	07:54 (SAM_WT03)	18:50	34	18:22 (EVE_WT01)	16:56	24	16:25 (KLZ_WT13)	16:38	126	16:05 (KLZ_WT20)
18	05:50		06:19 (EAM_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:48 (SAM_WT03)	08:12		08:56 (KLZ_WT02)	08:06		15:47 (KLZ_WT20)	08:45		09:25 (SAM_WT06)
	21:52	9	06:28 (EAM_WT01)	21:03	14	07:16 (SAM_WT10)	19:55	7	07:55 (SAM_WT03)	18:48	32	18:20 (EVE_WT01)	16:55	24	16:11 (KLZ_WT20)	16:39	124	16:04 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (SAM_WT03)	08:14		08:56 (KLZ_WT02)	08:07		15:46 (KLZ_WT20)	08:45		09:26 (SAM_WT06)
	21:51	8	06:28 (EAM_WT01)	21:01	12	07:15 (SAM_WT10)	19:53	6	07:56 (SAM_WT03)	18:46	31	18:18 (EVE_WT01)	16:53	25	16:11 (KLZ_WT20)	16:39	126	16:05 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38		07:05 (SAM_WT10)	07:27		07:52 (SAM_WT03)	08:16		08:57 (KLZ_WT02)	08:09		11:14 (KLZ_WT17)	08:46		09:27 (SAM_WT06)
	21:50	8	06:29 (EAM_WT02)	20:59	10	07:15 (SAM_WT10)	19:50	5	07:57 (SAM_WT03)	18:44	28	18:16 (EVE_WT01)	16:52	34	16:12 (KLZ_WT20)	16:39	123	16:05 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40		07:06 (SAM_WT10)	07:28		07:53 (SAM_WT03)	08:18		08:56 (KLZ_WT02)	08:11		11:09 (KLZ_WT17)	08:47		09:27 (SAM_WT06)
	21:49	8	06:31 (EAM_WT02)	20:57	8	07:14 (SAM_WT10)	19:48	3	07:56 (SAM_WT03)	18:42	25	18:14 (EVE_WT01)	16:51	46	16:13 (KLZ_WT20)	16:40	123	16:05 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41		07:08 (SAM_WT10)	07:30			08:19		08:57 (KLZ_WT02)	08:12		11:07 (KLZ_WT17)	08:47		09:28 (SAM_WT06)
	21:48	8	06:32 (EAM_WT02)	20:55	6	07:14 (SAM_WT10)	19:46			18:40	21	18:12 (EVE_WT01)	16:50	52	16:13 (KLZ_WT20)	16:40	123	16:06 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43		07:09 (SAM_WT10)	07:32		07:56 (SAM_WT02)	08:21		08:47 (SAM_WT08)	08:14		09:26 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:47	8	06:33 (EAM_WT02)	20:53	3	07:12 (SAM_WT10)	19:44	4	08:00 (SAM_WT02)	18:38	26	09:16 (KLZ_WT02)	16:49	60	16:13 (KLZ_WT20)	16:41	123	16:06 (KLZ_WT20)
24	05:58		06:26 (EAM_WT02)	06:44			07:33		07:58 (SAM_WT02)	08:23		08:49 (SAM_WT08)	08:16		09:23 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:45	7	06:33 (EAM_WT02)	20:50			19:41	3	08:01 (SAM_WT02)	18:36	22	09:15 (KLZ_WT02)	16:48	71	16:14 (KLZ_WT20)	16:41	124	16:07 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46		07:12 (SAM_WT09)	07:35		07:59 (SAM_WT02)	07:24		07:51 (SAM_WT08)	08:17		09:22 (SAM_WT06)	08:48		09:29 (SAM_WT06)
	21:44	6	06:34 (EAM_WT02)	20:48	4	07:16 (SAM_WT09)	19:39	2	08:01 (SAM_WT02)	17:34	17	08:13 (KLZ_WT02)	16:47	78	16:14 (KLZ_WT20)	16:42	124	16:08 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48		07:14 (SAM_WT09)	07:36		08:01 (SWB_WT01_RP)	07:26		07:53 (SAM_WT08)	08:19		09:21 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:43	5	06:34 (EAM_WT02)	20:46	3	07:17 (SAM_WT09)	19:37	2	08:03 (SWB_WT01_RP)	17:32	6	08:09 (KLZ_WT02)	16:46	81	16:13 (KLZ_WT20)	16:43	124	16:08 (KLZ_WT20)
27	06:02		06:30 (EAM_WT02)	06:49		07:15 (SAM_WT09)	07:38		08:03 (SWB_WT01_RP)	07:28		07:54 (SAM_WT08)	08:20		09:20 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:41	5	06:35 (EAM_WT03)	20:44	2	07:17 (SAM_WT09)	19:34	10	08:32 (KLZ_WT01)	17:30	3	07:57 (SAM_WT08)	16:45	85	16:13 (KLZ_WT20)	16:43	125	16:09 (KLZ_WT20)
28	06:03		06:32 (EAM_WT02)	06:51		07:17 (SAM_WT09)	07:40		08:21 (KLZ_WT01)	07:30			08:22		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:40	5	06:37 (EAM_WT03)	20:42	1	07:18 (SAM_WT09)	19:32	12	08:33 (KLZ_WT01)	17:28			16:44	88	16:12 (KLZ_WT20)	16:44	124	16:10 (KLZ_WT20)
29	06:05		06:33 (EAM_WT02)	06:52			07:41		08:20 (KLZ_WT01)	07:31			08:23		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:38	4	06:37 (EAM_WT03)	20:40			19:30	14	08:34 (KLZ_WT01)	17:26			16:43	94	16:11 (KLZ_WT20)	16:45	125	16:10 (KLZ_WT20)
30	06:06		06:34 (EAM_WT03)	06:54			07:43		08:18 (KLZ_WT01)	07:33			08:25		09:20 (SAM_WT06)	08:50		09:31 (SAM_WT06)
	21:37	4	06:38 (EAM_WT03)	20:38			19:28	16	08:34 (KLZ_WT01)	17:25			16:43	98	16:10 (KLZ_WT20)	16:46	124	16:11 (KLZ_WT20)
31	06:07		06:36 (EAM_WT03)	06:55						07:35						08:50		09:31 (SAM_WT06)
	21:35	2	06:38 (EAM_WT03)	20:35						17:23						16:47	124	16:12 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		190			170			94			477			1075			3716	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,66			0,59			0,57			0,66			0,63	
Total reduction		0,31			0,30			0,25			0,20			0,17			0,14	
Total, real		58			51			23			96			185			515	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Symphony, Gustav Mahlerplein 97-103
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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:08 (SAM_WT07)	08:24			07:32		17:40 (KLZ_WT20)	07:23		07:45 (SWB_WT01_RP)	06:20			05:36		06:24 (KLZ_WT01)
	16:48	61	13:14 (KLZ_WT23)	17:35			18:25	19	17:59 (KLZ_WT13)	20:17	31	19:30 (KLZ_WT05)	21:06			21:51	79	19:56 (KLZ_WT04)
2	08:50		10:09 (SAM_WT07)	08:22			07:30		17:39 (KLZ_WT20)	07:21		07:43 (SWB_WT01_RP)	06:18			05:36		06:25 (KLZ_WT01)
	16:49	60	13:15 (KLZ_WT23)	17:36			18:26	22	18:01 (KLZ_WT13)	20:19	32	19:31 (KLZ_WT05)	21:08			21:52	78	19:57 (KLZ_WT04)
3	08:49		10:10 (SAM_WT07)	08:21			07:28		17:39 (KLZ_WT20)	07:19		19:01 (KLZ_WT05)	06:16			05:35		06:03 (SAM_WT10)
	16:50	58	13:15 (KLZ_WT23)	17:38			18:28	24	18:03 (EVE_WT02)	20:20	30	19:31 (KLZ_WT05)	21:09			21:53	79	19:57 (KLZ_WT04)
4	08:49		10:10 (SAM_WT07)	08:19		08:57 (SAM_WT06)	07:26		17:38 (KLZ_WT20)	07:16		19:01 (KLZ_WT05)	06:15		06:39 (SAM_WT09)	05:34		06:02 (SAM_WT10)
	16:51	56	13:14 (KLZ_WT23)	17:40	7	09:04 (SAM_WT06)	18:30	27	18:05 (EVE_WT02)	20:22	30	19:31 (KLZ_WT05)	21:11	2	06:41 (SAM_WT09)	21:54	81	19:58 (KLZ_WT04)
5	08:49		10:12 (SAM_WT07)	08:18		08:53 (SAM_WT06)	07:24		17:37 (KLZ_WT20)	07:14		19:01 (KLZ_WT05)	06:13		06:37 (SAM_WT09)	05:33		06:02 (SAM_WT10)
	16:52	55	13:15 (KLZ_WT23)	17:42	15	09:08 (SAM_WT06)	18:32	29	18:06 (EVE_WT02)	20:24	30	19:31 (KLZ_WT05)	21:13	3	06:40 (SAM_WT09)	21:55	81	19:59 (KLZ_WT04)
6	08:49		10:12 (SAM_WT07)	08:16		08:51 (SAM_WT06)	07:21		07:44 (SAM_WT08)	07:12		07:34 (SAM_WT02)	06:11		06:35 (SAM_WT09)	05:33		06:01 (SAM_WT10)
	16:54	52	13:14 (KLZ_WT23)	17:44	19	09:10 (SAM_WT06)	18:33	33	18:07 (KLZ_WT20)	20:25	31	19:30 (KLZ_WT05)	21:14	4	06:39 (SAM_WT09)	21:56	81	19:59 (KLZ_WT04)
7	08:48		09:18 (SAM_WT04)	08:15		08:49 (SAM_WT06)	07:19		07:42 (SAM_WT08)	07:10		07:32 (SAM_WT02)	06:09		06:34 (SAM_WT09)	05:32		06:01 (SAM_WT10)
	16:55	49	13:14 (KLZ_WT23)	17:45	22	09:11 (SAM_WT06)	18:35	35	18:07 (KLZ_WT20)	20:27	32	19:29 (KLZ_WT05)	21:16	4	06:38 (SAM_WT09)	21:56	82	20:00 (KLZ_WT04)
8	08:48		09:17 (SAM_WT04)	08:13		08:48 (SAM_WT06)	07:17		07:40 (SAM_WT08)	07:08		07:30 (SAM_WT02)	06:08			05:32		06:00 (SAM_WT10)
	16:56	48	13:14 (KLZ_WT23)	17:47	25	09:13 (SAM_WT06)	18:37	38	18:08 (KLZ_WT06)	20:29	31	19:28 (KLZ_WT05)	21:17			21:57	86	20:00 (KLZ_WT04)
9	08:47		09:17 (SAM_WT04)	08:11		08:47 (SAM_WT06)	07:15		07:37 (SAM_WT08)	07:05		07:28 (SAM_WT02)	06:06			05:31		06:00 (SAM_WT10)
	16:57	43	13:14 (KLZ_WT23)	17:49	27	09:14 (SAM_WT06)	18:38	40	18:08 (KLZ_WT06)	20:30	32	19:28 (KLZ_WT05)	21:19			21:58	89	20:00 (KLZ_WT04)
10	08:47		09:16 (SAM_WT04)	08:09		08:46 (SAM_WT06)	07:13		07:35 (SAM_WT08)	07:03		19:03 (KLZ_WT05)	06:04			05:31		06:00 (SAM_WT10)
	16:59	35	13:13 (KLZ_WT23)	17:51	29	09:15 (SAM_WT06)	18:40	42	18:09 (KLZ_WT06)	20:32	23	19:26 (KLZ_WT05)	21:21			21:59	89	20:01 (KLZ_WT04)
11	08:46		09:15 (SAM_WT04)	08:08		08:45 (SAM_WT06)	07:10		07:34 (SAM_WT08)	07:01		19:04 (KLZ_WT05)	06:03			05:30		05:59 (SAM_WT10)
	17:00	34	13:12 (KLZ_WT23)	17:53	31	09:16 (SAM_WT06)	18:42	44	18:17 (KLZ_WT12)	20:33	20	19:24 (KLZ_WT05)	21:22			22:00	92	20:01 (KLZ_WT04)
12	08:46		09:15 (SAM_WT04)	08:06		08:45 (SAM_WT06)	07:08		07:36 (SAM_WT08)	06:59		19:06 (KLZ_WT05)	06:01			05:30		05:59 (SAM_WT10)
	17:02	34	13:12 (KLZ_WT23)	17:54	31	09:16 (SAM_WT06)	18:44	42	18:19 (KLZ_WT12)	20:35	16	19:22 (KLZ_WT05)	21:24			22:00	90	20:01 (KLZ_WT04)
13	08:45		09:14 (SAM_WT04)	08:04		08:44 (SAM_WT06)	07:06		17:40 (KLZ_WT20)	06:57		07:19 (SAM_WT03)	05:59			05:30		05:59 (SAM_WT10)
	17:03	32	13:11 (KLZ_WT23)	17:56	33	09:17 (SAM_WT06)	18:45	37	18:20 (KLZ_WT12)	20:37	14	19:20 (KLZ_WT05)	21:25			22:01	91	20:02 (KLZ_WT04)
14	08:44		09:13 (SAM_WT04)	08:02		08:44 (SAM_WT06)	07:04		17:42 (KLZ_WT20)	06:55		07:17 (SAM_WT03)	05:58		06:29 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:05	30	13:09 (KLZ_WT23)	17:58	33	09:17 (SAM_WT06)	18:47	37	18:22 (KLZ_WT12)	20:38	5	07:22 (SAM_WT03)	21:27	19	19:30 (KLZ_WT04)	22:02	91	20:02 (KLZ_WT04)
15	08:44		09:12 (SAM_WT04)	08:00		08:43 (SAM_WT06)	07:02		17:45 (KLZ_WT20)	06:52		07:15 (SAM_WT03)	05:56		06:27 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:06	27	13:07 (KLZ_WT23)	18:00	34	09:17 (SAM_WT06)	18:49	35	18:24 (KLZ_WT12)	20:40	7	07:22 (SAM_WT03)	21:28	33	19:35 (KLZ_WT04)	22:02	94	20:03 (KLZ_WT04)
16	08:43		09:11 (SAM_WT04)	07:58		08:43 (SAM_WT06)	06:59		17:53 (KLZ_WT06)	06:50		07:13 (SAM_WT03)	05:55		06:26 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:08	15	09:26 (SAM_WT11)	18:02	34	09:17 (SAM_WT06)	18:50	28	18:26 (KLZ_WT12)	20:42	8	07:21 (SAM_WT03)	21:30	40	19:38 (KLZ_WT04)	22:03	95	20:03 (KLZ_WT04)
17	08:42		09:10 (SAM_WT04)	07:56		08:43 (SAM_WT06)	06:57		17:55 (KLZ_WT06)	06:48		07:12 (SAM_WT03)	05:53		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:09	17	09:27 (SAM_WT11)	18:03	34	09:17 (SAM_WT06)	18:52	21	18:25 (KLZ_WT12)	20:43	8	07:20 (SAM_WT03)	21:31	47	19:39 (KLZ_WT04)	22:03	94	20:03 (KLZ_WT04)
18	08:41		09:09 (SAM_WT04)	07:55		08:43 (SAM_WT06)	06:55		18:13 (KLZ_WT12)	06:46		07:13 (SAM_WT03)	05:52		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:11	18	09:27 (SAM_WT11)	18:05	34	09:17 (SAM_WT06)	18:54	11	18:24 (KLZ_WT12)	20:45	5	07:18 (SAM_WT03)	21:33	52	19:41 (KLZ_WT04)	22:03	95	20:04 (KLZ_WT04)
19	08:40		09:08 (SAM_WT11)	07:53		08:44 (SAM_WT06)	06:53		18:15 (KLZ_WT12)	06:44			05:51		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:12	19	09:27 (SAM_WT11)	18:07	32	09:16 (SAM_WT06)	18:55	9	18:31 (EVE_WT01)	20:47			21:34	56	19:43 (KLZ_WT04)	22:04	96	20:04 (KLZ_WT04)
20	08:39		09:07 (SAM_WT11)	07:51		08:44 (SAM_WT06)	06:50		18:29 (EVE_WT01)	06:42			05:49		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:14	21	09:28 (SAM_WT11)	18:09	32	09:16 (SAM_WT06)	18:57	3	18:32 (EVE_WT01)	20:48			21:35	60	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
21	08:38		09:05 (SAM_WT11)	07:49		08:45 (SAM_WT06)	06:48		18:27 (EVE_WT01)	06:40			05:48		06:22 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:16	22	09:27 (SAM_WT11)	18:11	30	09:15 (SAM_WT06)	18:59	6	18:33 (EVE_WT01)	20:50			21:37	63	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
22	08:37		09:05 (SAM_WT11)	07:47		08:45 (SAM_WT06)	06:46		18:27 (EVE_WT01)	06:38		07:01 (SAM_WT01)	05:47		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:17	23	09:28 (SAM_WT11)	18:12	29	09:14 (SAM_WT06)	19:00	8	18:35 (EVE_WT01)	20:52	2	07:03 (SAM_WT01)	21:38	66	19:47 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
23	08:36		09:06 (SAM_WT11)	07:45		08:46 (SAM_WT06)	06:43		18:28 (EVE_WT01)	06:36		06:59 (SAM_WT01)	05:45		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:19	22	09:28 (SAM_WT11)	18:14	27	09:13 (SAM_WT06)	19:02	9	18:37 (EVE_WT01)	20:53	2	07:01 (SAM_WT01)	21:40	68	19:48 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
24	08:35		09:06 (SAM_WT11)	07:43		08:48 (SAM_WT06)	06:41		18:28 (EVE_WT01)	06:34		06:57 (SAM_WT01)	05:44		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:21	21	09:27 (SAM_WT11)	18:16	23	09:11 (SAM_WT06)	19:04	10	18:38 (EVE_WT01)	20:55	2	06:59 (SAM_WT01)	21:41	71	19:49 (KLZ_WT04)	22:05	96	20:05 (KLZ_WT04)
25	08:34		09:07 (SAM_WT11)	07:40		08:49 (SAM_WT06)	06:39		18:30 (EVE_WT01)	06:32			05:43		06:22 (KLZ_WT01)	05:31		06:00 (SAM_WT10)
	17:22	20	09:27 (SAM_WT11)	18:18	25	17:52 (KLZ_WT20)	19:05	6	18:36 (EVE_WT01)	20:56			21:42	72	19:50 (KLZ_WT04)	22:05	95	20:05 (KLZ_WT04)
26	08:32		09:09 (SAM_WT11)	07:38		08:51 (SAM_WT06)	06:37		18:15 (KLZ_WT05)	06:30			05:42		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:24	18	09:27 (SAM_WT11)	18:19	24	17:54 (KLZ_WT13)	19:07	7	18:22 (KLZ_WT05)	20:58			21:43	74	19:51 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
27	08:31		09:09 (SAM_WT11)	07:36		08:55 (SAM_WT06)	06:34		18:11 (KLZ_WT05)	06:28			05:41		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:26	16	09:25 (SAM_WT11)	18:21	21	17:56 (KLZ_WT13)	19:09	14	18:25 (KLZ_WT05)	21:00			21:45	75	19:52 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
28	08:30		09:11 (SAM_WT11)	07:34		17:41 (KLZ_WT20)	06:32		18:08 (KLZ_WT05)	06:26			05:40		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:27	14	09:25 (SAM_WT11)	18:23	16	17:57 (KLZ_WT13)	19:10	18	18:26 (KLZ_WT05)	21:01			21:46	75	19:52 (KLZ_WT04)	22:05	93	20:06 (KLZ_WT04)
29	08:28		09:13 (SAM_WT11)				07:30		19:06 (KLZ_WT05)	06:24			05:39		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:29	9	09:22 (SAM_WT11)				20:12	22	19:28 (KLZ_WT05)	21:03			21:47	77	19:53 (KLZ_WT04)	22:05	91	20:05 (KLZ_WT04)
30	08:27						07:28		19:05 (KLZ_WT05)	06:22			05:38		06:23 (KLZ_WT01)	05:33		06:03 (SAM_WT10)
	17:31						20:14	25	19:30 (KLZ_WT05)	21:05			21:48	78	19:55 (KLZ_WT04)	22:04	90	20:06 (KLZ_WT04)
31	08:25						07:25		07:48 (SWB_WT01_RP)				05:37		06:24 (KLZ_WT01)			
	17:33						20:15	29	19:31 (KLZ_WT05)				21:49	77	19:55 (KLZ_WT04)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		929			667			730			391			1116			2704	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,61			0,56			0,64			0,63			0,59			0,59	
Total reduction		0,15			0,16			0,24			0,28			0,26			0,25	
Total, real		137			109			173			111			294			689	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT10)	06:09			06:57		19:04 (KLZ_WT05)	07:44		18:19 (KLZ_WT20)	07:36		08:16 (SAM_WT06)	08:26		08:57 (SAM_WT04)
	22:04	92	20:06 (KLZ_WT04)	21:34			20:33	20	19:24 (KLZ_WT05)	19:25	35	18:58 (KLZ_WT12)	17:21	28	08:44 (SAM_WT06)	16:42	34	12:54 (KLZ_WT23)
2	05:34		06:04 (SAM_WT10)	06:10			06:59		19:01 (KLZ_WT05)	07:46		08:14 (SAM_WT08)	07:38		08:17 (SAM_WT06)	08:27		08:59 (SAM_WT04)
	22:04	90	20:05 (KLZ_WT04)	21:32			20:31	23	19:24 (KLZ_WT05)	19:23	43	18:56 (KLZ_WT12)	17:19	27	08:44 (SAM_WT06)	16:41	35	12:56 (KLZ_WT23)
3	05:35		06:05 (SAM_WT10)	06:12			07:00		07:26 (SAM_WT02)	07:48		08:12 (SAM_WT08)	07:40		08:17 (SAM_WT06)	08:29		09:00 (SAM_WT04)
	22:04	90	20:06 (KLZ_WT04)	21:30			20:29	32	19:26 (KLZ_WT05)	19:21	43	18:54 (KLZ_WT12)	17:17	25	08:42 (SAM_WT06)	16:41	43	12:57 (KLZ_WT23)
4	05:36		06:06 (SAM_WT10)	06:13			07:02		07:27 (SAM_WT02)	07:49		08:14 (SAM_WT08)	07:42		08:19 (SAM_WT06)	08:30		09:02 (SAM_WT04)
	22:03	88	20:06 (KLZ_WT04)	21:29			20:27	31	19:25 (KLZ_WT05)	19:19	41	18:46 (KLZ_WT06)	17:16	22	08:41 (SAM_WT06)	16:40	47	12:59 (KLZ_WT23)
5	05:37		06:06 (SAM_WT10)	06:15			07:03		07:29 (SAM_WT02)	07:51		08:16 (SAM_WT08)	07:43		08:21 (SAM_WT06)	08:31		09:03 (SAM_WT04)
	22:03	83	20:05 (KLZ_WT04)	21:27			20:24	32	19:26 (KLZ_WT05)	19:16	39	18:45 (KLZ_WT06)	17:14	18	08:39 (SAM_WT06)	16:40	49	12:59 (KLZ_WT23)
6	05:37		06:07 (SAM_WT10)	06:16		06:44 (SAM_WT09)	07:05		07:30 (SAM_WT02)	07:52		08:17 (SAM_WT08)	07:45		08:23 (SAM_WT06)	08:33		09:59 (SAM_WT07)
	22:02	82	20:05 (KLZ_WT04)	21:25	4	06:48 (SAM_WT09)	20:22	31	19:26 (KLZ_WT05)	19:14	36	18:43 (KLZ_WT06)	17:12	14	08:37 (SAM_WT06)	16:39	51	13:00 (KLZ_WT23)
7	05:38		06:08 (SAM_WT10)	06:18		06:46 (SAM_WT09)	07:06		18:57 (KLZ_WT05)	07:54		08:19 (SAM_WT08)	07:47		08:27 (SAM_WT06)	08:34		09:59 (SAM_WT07)
	22:02	82	20:05 (KLZ_WT04)	21:24	3	06:49 (SAM_WT09)	20:20	29	19:26 (KLZ_WT05)	19:12	34	18:43 (KLZ_WT20)	17:11	6	08:33 (SAM_WT06)	16:39	55	13:02 (KLZ_WT23)
8	05:39		06:09 (SAM_WT10)	06:19		06:47 (SAM_WT09)	07:08		18:55 (KLZ_WT05)	07:56		08:21 (SAM_WT08)	07:49			08:35		09:59 (SAM_WT07)
	22:01	81	20:05 (KLZ_WT04)	21:22	3	06:50 (SAM_WT09)	20:18	30	19:25 (KLZ_WT05)	19:10	32	18:43 (KLZ_WT20)	17:09			16:39	55	13:02 (KLZ_WT23)
9	05:40		06:10 (SAM_WT10)	06:21		06:48 (SAM_WT09)	07:10		18:56 (KLZ_WT05)	07:57		18:12 (KLZ_WT20)	07:50			08:36		09:58 (SAM_WT07)
	22:00	80	20:05 (KLZ_WT04)	21:20	1	06:49 (SAM_WT09)	20:15	29	19:25 (KLZ_WT05)	19:08	28	18:40 (EVE_WT02)	17:07			16:38	58	13:03 (KLZ_WT23)
10	05:41		06:11 (SAM_WT10)	06:23			07:11		07:36 (SWB_WT01_RP)	07:59		18:13 (KLZ_WT20)	07:52			08:37		09:58 (SAM_WT07)
	22:00	79	20:05 (KLZ_WT04)	21:18			20:13	32	19:24 (KLZ_WT05)	19:05	25	18:38 (EVE_WT02)	17:06			16:38	60	13:04 (KLZ_WT23)
11	05:42		06:32 (KLZ_WT01)	06:24			07:13		07:38 (SWB_WT01_RP)	08:01		18:13 (KLZ_WT20)	07:54			08:38		09:58 (SAM_WT07)
	21:59	78	20:04 (KLZ_WT04)	21:16			20:11	31	19:23 (KLZ_WT05)	19:03	23	18:36 (KLZ_WT13)	17:04			16:38	61	13:04 (KLZ_WT23)
12	05:43		06:32 (KLZ_WT01)	06:26			07:14		07:39 (SWB_WT01_RP)	08:02		18:13 (KLZ_WT20)	07:56			08:39		09:58 (SAM_WT07)
	21:58	78	20:04 (KLZ_WT04)	21:14			20:09	29	19:22 (KLZ_WT05)	19:01	20	18:33 (KLZ_WT13)	17:03			16:38	62	13:05 (KLZ_WT23)
13	05:44		06:32 (KLZ_WT01)	06:27			07:16		07:41 (SWB_WT01_RP)	08:04		18:14 (KLZ_WT20)	07:57		08:45 (SAM_WT11)	08:40		09:58 (SAM_WT07)
	21:57	78	20:04 (KLZ_WT04)	21:12			20:06	26	19:21 (KLZ_WT05)	18:59	17	18:31 (KLZ_WT13)	17:01	9	08:54 (SAM_WT11)	16:38	64	13:06 (KLZ_WT23)
14	05:45		06:32 (KLZ_WT01)	06:29			07:17		18:56 (KLZ_WT05)	08:06		18:15 (KLZ_WT20)	07:59		08:43 (SAM_WT11)	08:41		09:59 (SAM_WT07)
	21:56	77	20:03 (KLZ_WT04)	21:11			20:04	23	19:19 (KLZ_WT05)	18:57	14	18:29 (KLZ_WT13)	17:00	14	08:57 (SAM_WT11)	16:38	64	13:06 (KLZ_WT23)
15	05:46		06:32 (KLZ_WT01)	06:30			07:19		18:58 (KLZ_WT05)	08:07		09:25 (SAM_WT06)	08:01		08:42 (SAM_WT11)	08:42		09:59 (SAM_WT07)
	21:56	76	20:02 (KLZ_WT04)	21:09			20:02	19	19:17 (KLZ_WT05)	18:55	23	18:27 (KLZ_WT13)	16:58	16	08:58 (SAM_WT11)	16:38	65	13:07 (KLZ_WT23)
16	05:47		06:32 (KLZ_WT01)	06:32			07:21		18:59 (KLZ_WT05)	08:09		09:22 (SAM_WT06)	08:02		08:42 (SAM_WT11)	08:43		09:59 (SAM_WT07)
	21:55	75	20:02 (KLZ_WT04)	21:07			19:59	15	19:14 (KLZ_WT05)	18:52	23	18:24 (KLZ_WT20)	16:57	18	09:00 (SAM_WT11)	16:38	67	13:08 (KLZ_WT23)
17	05:49		06:31 (KLZ_WT01)	06:33			07:22		19:02 (KLZ_WT05)	08:11		09:20 (SAM_WT06)	08:04		08:41 (SAM_WT11)	08:44		10:00 (SAM_WT07)
	21:54	75	20:01 (KLZ_WT04)	21:05			19:57	9	19:11 (KLZ_WT05)	18:50	23	18:22 (KLZ_WT20)	16:56	20	09:01 (SAM_WT11)	16:38	66	13:09 (KLZ_WT23)
18	05:50		06:31 (KLZ_WT01)	06:35			07:24		19:18 (EVE_WT01)	08:12		09:18 (SAM_WT06)	08:06		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:52	73	20:00 (KLZ_WT04)	21:03			19:55	5	19:23 (EVE_WT01)	18:48	25	09:43 (SAM_WT06)	16:55	21	09:01 (SAM_WT11)	16:39	67	13:09 (KLZ_WT23)
19	05:51		06:31 (KLZ_WT01)	06:37		07:03 (SAM_WT01)	07:25		19:16 (EVE_WT01)	08:14		09:17 (SAM_WT06)	08:07		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:51	71	19:59 (KLZ_WT04)	21:01	2	07:05 (SAM_WT01)	19:53	10	19:26 (EVE_WT01)	18:46	28	09:45 (SAM_WT06)	16:53	22	09:02 (SAM_WT11)	16:39	68	13:10 (KLZ_WT23)
20	05:52		06:31 (KLZ_WT01)	06:38		07:05 (SAM_WT01)	07:27		19:15 (EVE_WT01)	08:16		09:16 (SAM_WT06)	08:09		08:40 (SAM_WT11)	08:46		10:01 (SAM_WT07)
	21:50	70	19:58 (KLZ_WT04)	20:59	2	07:07 (SAM_WT01)	19:50	9	19:24 (EVE_WT01)	18:44	30	09:46 (SAM_WT06)	16:52	23	09:03 (SAM_WT11)	16:39	67	13:10 (KLZ_WT23)
21	05:54		06:32 (KLZ_WT01)	06:40		07:06 (SAM_WT01)	07:28		19:13 (EVE_WT01)	08:17		09:15 (SAM_WT06)	08:11		08:41 (SAM_WT11)	08:47		10:01 (SAM_WT07)
	21:49	68	19:58 (KLZ_WT04)	20:57	1	07:07 (SAM_WT01)	19:48	8	19:21 (EVE_WT01)	18:42	31	09:46 (SAM_WT06)	16:51	22	09:03 (SAM_WT11)	16:40	67	13:10 (KLZ_WT23)
22	05:55		06:32 (KLZ_WT01)	06:41			07:30		19:13 (EVE_WT01)	08:19		09:14 (SAM_WT06)	08:12		08:43 (SAM_WT11)	08:47		10:02 (SAM_WT07)
	21:48	65	19:57 (KLZ_WT04)	20:55			19:46	7	19:20 (EVE_WT01)	18:40	32	09:46 (SAM_WT06)	16:50	21	09:04 (SAM_WT11)	16:40	67	13:11 (KLZ_WT23)
23	05:56		06:32 (KLZ_WT01)	06:43			07:32		19:12 (EVE_WT01)	08:21		09:14 (SAM_WT06)	08:14		08:44 (SAM_WT11)	08:48		10:02 (SAM_WT07)
	21:47	62	19:55 (KLZ_WT04)	20:52			19:43	5	19:17 (EVE_WT01)	18:38	33	09:47 (SAM_WT06)	16:49	19	09:03 (SAM_WT11)	16:41	67	13:11 (KLZ_WT23)
24	05:58		06:33 (KLZ_WT01)	06:44			07:33		18:59 (KLZ_WT12)	08:23		09:14 (SAM_WT06)	08:16		08:46 (SAM_WT04)	08:48		10:02 (SAM_WT07)
	21:45	58	19:54 (KLZ_WT04)	20:50			19:41	7	19:15 (EVE_WT01)	18:36	33	09:47 (SAM_WT06)	16:48	18	09:04 (SAM_WT11)	16:41	67	13:11 (KLZ_WT23)
25	05:59		06:34 (KLZ_WT01)	06:46		07:16 (SAM_WT03)	07:35		18:56 (KLZ_WT12)	07:24		08:14 (SAM_WT06)	08:17		08:48 (SAM_WT04)	08:48		10:04 (SAM_WT07)
	21:44	55	19:53 (KLZ_WT04)	20:48	5	07:21 (SAM_WT03)	19:39	10	19:06 (KLZ_WT12)	17:34	33	08:47 (SAM_WT06)	16:47	17	09:05 (SAM_WT11)	16:42	67	13:13 (KLZ_WT23)
26	06:00		06:34 (KLZ_WT01)	06:48		07:14 (SAM_WT03)	07:36		18:39 (KLZ_WT06)	07:26		08:14 (SAM_WT06)	08:19		08:49 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:43	51	19:51 (KLZ_WT04)	20:46	9	07:23 (SAM_WT03)	19:37	18	19:07 (KLZ_WT12)	17:32	33	08:47 (SAM_WT06)	16:46	15	09:04 (SAM_WT11)	16:43	66	13:13 (KLZ_WT23)
27	06:02		06:35 (KLZ_WT01)	06:49		07:15 (SAM_WT03)	07:38		18:36 (KLZ_WT06)	07:28		08:13 (SAM_WT06)	08:20		08:51 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:41	45	19:49 (KLZ_WT04)	20:44	8	07:23 (SAM_WT03)	19:34	26	19:08 (KLZ_WT12)	17:30	33	08:46 (SAM_WT06)	16:45	27	12:46 (KLZ_WT23)	16:43	67	13:13 (KLZ_WT23)
28	06:03		06:37 (KLZ_WT01)	06:51		07:17 (SAM_WT03)	07:40		18:27 (KLZ_WT20)	07:30		08:13 (SAM_WT06)	08:22		08:53 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:40	37	19:47 (KLZ_WT04)	20:42	6	07:23 (SAM_WT03)	19:32	33	19:05 (KLZ_WT12)	17:28	33	08:46 (SAM_WT06)	16:44	30	12:49 (KLZ_WT23)	16:44	65	13:13 (KLZ_WT23)
29	06:05		06:38 (KLZ_WT01)	06:52		07:18 (SAM_WT03)	07:41		18:23 (KLZ_WT20)	07:31		08:14 (SAM_WT06)	08:23		08:54 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:38	28	19:44 (KLZ_WT04)	20:40	5	07:23 (SAM_WT03)	19:30	36	19:03 (KLZ_WT12)	17:26	32	08:46 (SAM_WT06)	16:43	33	12:51 (KLZ_WT23)	16:45	65	13:13 (KLZ_WT23)
30	06:06		19:28 (KLZ_WT04)	06:54		07:20 (SAM_WT03)	07:43		18:20 (KLZ_WT20)	07:33		08:14 (SAM_WT06)	08:25		08:56 (SAM_WT04)	08:50		10:06 (SAM_WT07)
	21:37	10	19:38 (KLZ_WT04)	20:38	14	19:21 (KLZ_WT05)	19:28	37	19:00 (KLZ_WT12)	17:25	32	08:46 (SAM_WT06)	16:43	34	12:53 (KLZ_WT23)	16:46	64	13:14 (KLZ_WT23)
31	06:07			06:55		19:05 (KLZ_WT05)				07:35		08:15 (SAM_WT06)				08:50		10:07 (SAM_WT07)
	21:35			20:35	17	19:22 (KLZ_WT05)				17:23	30	08:45 (SAM_WT06)				16:47	62	13:14 (KLZ_WT23)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		2077			80			652			937			519			1862	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59			0,64			0,63			0,60			0,56			0,64	
Total reduction		0,26			0,29			0,27			0,21			0,15			0,14	
Total, real		533			23			174			198			76			262	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	66	11:38 (KLZ_WT23)	17:35	97	11:58 (KLZ_WT23)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	67	11:39 (KLZ_WT23)	17:36	98	11:58 (KLZ_WT23)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	67	11:40 (KLZ_WT23)	17:38	99	11:58 (KLZ_WT23)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	68	11:41 (KLZ_WT23)	17:40	98	11:58 (KLZ_WT23)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	69	11:42 (KLZ_WT23)	17:42	100	11:58 (KLZ_WT23)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	67	11:42 (KLZ_WT23)	17:44	102	11:57 (KLZ_WT23)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	67	11:43 (KLZ_WT23)	17:45	104	11:57 (KLZ_WT23)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	67	11:44 (KLZ_WT23)	17:47	104	11:57 (KLZ_WT23)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	67	11:45 (KLZ_WT23)	17:49	105	11:56 (KLZ_WT23)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	66	11:46 (KLZ_WT23)	17:51	104	11:56 (KLZ_WT23)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	62	11:46 (KLZ_WT23)	17:53	103	11:55 (KLZ_WT23)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46		10:49 (KLZ_WT23)	08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02	59	11:48 (KLZ_WT23)	17:54	100	11:54 (KLZ_WT23)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45		10:49 (KLZ_WT23)	08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03	60	11:49 (KLZ_WT23)	17:56	97	11:53 (KLZ_WT23)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44		10:49 (KLZ_WT23)	08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05	60	11:49 (KLZ_WT23)	17:58	91	11:51 (KLZ_WT23)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44		10:49 (KLZ_WT23)	08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06	61	11:50 (KLZ_WT23)	18:00	84	11:50 (KLZ_WT23)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43		10:49 (KLZ_WT23)	07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08	62	11:51 (KLZ_WT23)	18:02	76	11:49 (KLZ_WT23)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42		10:49 (KLZ_WT23)	07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09	62	11:51 (KLZ_WT23)	18:03	69	11:47 (KLZ_WT23)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41		10:49 (KLZ_WT23)	07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11	63	11:52 (KLZ_WT23)	18:05	65	11:45 (KLZ_WT23)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40		10:49 (KLZ_WT23)	07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12	64	11:53 (KLZ_WT23)	18:07	58	11:42 (KLZ_WT23)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39		10:49 (KLZ_WT23)	07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14	65	11:54 (KLZ_WT23)	18:09	52	11:40 (KLZ_WT23)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38		10:48 (KLZ_WT23)	07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16	66	11:54 (KLZ_WT23)	18:11	41	11:36 (KLZ_WT23)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37		10:48 (KLZ_WT23)	07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17	66	11:54 (KLZ_WT23)	18:12	26	11:31 (KLZ_WT23)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	74	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	81	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	86	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	88	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	91	11:57 (KLZ_WT23)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	91	11:57 (KLZ_WT23)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	94	11:57 (KLZ_WT23)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	95	11:58 (KLZ_WT23)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	97	11:58 (KLZ_WT23)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2218			1873			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59			0,58			0,60			0,60			0,57			0,71	
Total reduction		0,14			0,17			0,22			0,27			0,25			0,31	
Total, real		317			320			171			276			39			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	06:10 (KLZ_WT01)	21:34		06:38 (SAM_WT09)	20:33		20:03 (EVE_WT01)	19:25		18:58 (KLZ_WT13)	17:21		11:25 (KLZ_WT23)	16:42		11:29 (KLZ_WT23)
2	05:34	06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:32			20:31		20:03 (EVE_WT01)	19:23		08:32 (SAM_WT06)	17:19		11:26 (KLZ_WT23)	16:41		11:29 (KLZ_WT23)
3	05:35	06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:30			20:29		20:03 (EVE_WT01)	19:21		08:28 (SAM_WT06)	17:17		11:26 (KLZ_WT23)	16:41		11:28 (KLZ_WT23)
4	05:36	06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	06:09 (KLZ_WT01)	21:29		20:11 (KLZ_WT06)	20:27		20:00 (EVE_WT01)	19:19			17:16		11:27 (KLZ_WT23)	16:40		11:29 (KLZ_WT23)
5	05:37	06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	06:07 (KLZ_WT01)	21:27		20:15 (KLZ_WT06)	20:24		19:58 (EVE_WT01)	19:16			17:14		11:27 (KLZ_WT23)	16:40		11:29 (KLZ_WT23)
6	05:37		06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02		21:25		20:16 (KLZ_WT06)	20:22		19:55 (EVE_WT01)	19:14			17:12		11:28 (KLZ_WT23)	16:39		11:28 (KLZ_WT23)
7	05:38		06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02		21:24		20:18 (KLZ_WT06)	20:20		19:54 (EVE_WT01)	19:12			17:11		11:28 (KLZ_WT23)	16:39		11:29 (KLZ_WT23)
8	05:39		06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01		21:22		20:19 (KLZ_WT06)	20:18		19:51 (EVE_WT01)	19:10			17:09		11:28 (KLZ_WT23)	16:39		11:29 (KLZ_WT23)
9	05:40		06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00		21:20		20:19 (KLZ_WT06)	20:15		19:49 (KLZ_WT12)	19:08			17:07		11:29 (KLZ_WT23)	16:38		11:29 (KLZ_WT23)
10	05:41		06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00		21:18		20:20 (KLZ_WT06)	20:13		19:46 (KLZ_WT12)	19:05			17:06		11:29 (KLZ_WT23)	16:38		11:28 (KLZ_WT23)
11	05:42		06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59		21:16		20:20 (KLZ_WT06)	20:11		19:43 (KLZ_WT20)	19:03			17:04		11:29 (KLZ_WT23)	16:38		11:28 (KLZ_WT23)
12	05:43		06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58		21:14		20:21 (KLZ_WT06)	20:09		19:42 (KLZ_WT20)	19:01			17:03		11:29 (KLZ_WT23)	16:38		11:28 (KLZ_WT23)
13	05:44		06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57		21:12		20:20 (KLZ_WT06)	20:06		19:40 (KLZ_WT20)	18:59			17:01		11:29 (KLZ_WT23)	16:38		11:29 (KLZ_WT23)
14	05:45		06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56		21:11		20:21 (KLZ_WT06)	20:04		19:37 (KLZ_WT20)	18:57			17:00		11:29 (KLZ_WT23)	16:38		11:29 (KLZ_WT23)
15	05:46		06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56		21:09		20:20 (KLZ_WT06)	20:02		19:35 (KLZ_WT20)	18:55			16:58		11:29 (KLZ_WT23)	16:38		11:29 (KLZ_WT23)
16	05:48		06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55		21:07		20:20 (KLZ_WT06)	19:59		19:33 (KLZ_WT20)	18:52			16:57		16:26 (KLZ_WT15)	16:38		11:30 (KLZ_WT23)
17	05:49		06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54		21:05		20:19 (KLZ_WT06)	19:57		19:31 (KLZ_WT20)	18:50			16:56		16:25 (KLZ_WT15)	16:38		11:30 (KLZ_WT23)
18	05:50		06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52		21:03		20:19 (KLZ_WT06)	19:55		19:28 (KLZ_WT20)	18:48			16:55		16:23 (KLZ_WT15)	16:39		11:30 (KLZ_WT23)
19	05:51		06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14		11:47 (KLZ_WT23)	08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51		21:01		20:18 (KLZ_WT06)	19:53		19:26 (KLZ_WT20)	18:46		11:57 (KLZ_WT23)	16:53		16:22 (KLZ_WT15)	16:39		11:30 (KLZ_WT23)
20	05:52		06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09		10:23 (KLZ_WT23)	08:46		09:20 (SAM_WT05)
	21:50		20:59		20:18 (KLZ_WT06)	19:50		19:24 (KLZ_WT20)	18:44		12:04 (KLZ_WT23)	16:52		11:29 (KLZ_WT23)	16:39		11:31 (KLZ_WT23)
21	05:54		06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11		10:24 (KLZ_WT23)	08:47		09:20 (SAM_WT05)
	21:49		20:57		20:16 (KLZ_WT06)	19:48		08:41 (SAM_WT06)	18:42		12:08 (KLZ_WT23)	16:51		11:30 (KLZ_WT23)	16:40		11:31 (KLZ_WT23)
22	05:55		06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12		10:25 (KLZ_WT23)	08:47		09:21 (SAM_WT05)
	21:48		20:55		20:14 (KLZ_WT06)	19:46		08:42 (SAM_WT06)	18:40		12:11 (KLZ_WT23)	16:50		11:30 (KLZ_WT23)	16:40		11:32 (KLZ_WT23)
23	05:56		06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14		10:25 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:47		20:52		20:12 (KLZ_WT06)	19:44		19:08 (KLZ_WT13)	18:38		12:14 (KLZ_WT23)	16:49		11:29 (KLZ_WT23)	16:41		11:32 (KLZ_WT23)
24	05:58		06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16		10:26 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:45		20:50		20:10 (KLZ_WT06)	19:41		19:10 (KLZ_WT13)	18:36		12:16 (KLZ_WT23)	16:48		11:29 (KLZ_WT23)	16:41		11:32 (KLZ_WT23)
25	05:59		06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17		10:27 (KLZ_WT23)	08:48		09:22 (SAM_WT05)
	21:44		20:48		19:31 (KLZ_WT20)	19:39		19:11 (KLZ_WT13)	17:34		11:18 (KLZ_WT23)	16:47		11:30 (KLZ_WT23)	16:42		11:33 (KLZ_WT23)
26	06:00		06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19		10:27 (KLZ_WT23)	08:49		09:22 (SAM_WT05)
	21:43		20:46		19:37 (KLZ_WT20)	19:37		19:10 (KLZ_WT13)	17:32		11:19 (KLZ_WT23)	16:46		11:29 (KLZ_WT23)	16:43		11:34 (KLZ_WT23)
27	06:02		06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20		10:28 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:41		20:44		19:39 (KLZ_WT20)	19:34		19:08 (KLZ_WT13)	17:30		11:20 (KLZ_WT23)	16:45		11:29 (KLZ_WT23)	16:43		11:34 (KLZ_WT23)
28	06:03		06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:40		20:42		19:42 (KLZ_WT20)	19:32		19:05 (KLZ_WT13)	17:28		11:21 (KLZ_WT23)	16:44		11:29 (KLZ_WT23)	16:44		11:35 (KLZ_WT23)
29	06:05		06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:38		20:40		19:56 (KLZ_WT12)	19:30		19:03 (KLZ_WT13)	17:26		11:23 (KLZ_WT23)	16:43		11:29 (KLZ_WT23)	16:45		11:36 (KLZ_WT23)
30	06:06		06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25		10:30 (KLZ_WT23)	08:50		09:24 (SAM_WT05)
	21:37		20:38		19:59 (KLZ_WT12)	19:28		19:00 (KLZ_WT13)	17:25		11:24 (KLZ_WT23)	16:43		11:29 (KLZ_WT23)	16:46		11:36 (KLZ_WT23)
31	06:08	06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	06:37 (SAM_WT09)	20:35		20:01 (EVE_WT01)				17:23		11:25 (KLZ_WT23)				16:47		11:37 (KLZ_WT23)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		20		644			1274			938			2495			2019	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97		0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71		0,58			0,61			0,58			0,59			0,58	
Total reduction		0,31		0,27			0,26			0,21			0,15			0,13	
Total, real		6		171			326			194			383			258	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		11:31 (KLZ_WT19)	08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		20:36 (KLZ_WT13)	05:36		06:27 (SAM_WT06)
	16:48	48	12:19 (KLZ_WT19)	17:35	37	17:05 (KLZ_WT16)	18:25			20:17	20	08:07 (SAM_WT11)	21:06	2	20:38 (KLZ_WT13)	21:50	28	21:13 (EVE_WT01)
2	08:49		11:31 (KLZ_WT19)	08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		20:35 (KLZ_WT13)	05:36		06:28 (SAM_WT06)
	16:49	48	12:19 (KLZ_WT19)	17:36	37	17:07 (KLZ_WT16)	18:26			20:19	17	08:05 (SAM_WT11)	21:08	5	20:40 (KLZ_WT13)	21:52	26	21:13 (EVE_WT01)
3	08:49		11:31 (KLZ_WT19)	08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		20:34 (KLZ_WT13)	05:35		06:28 (SAM_WT06)
	16:50	48	12:19 (KLZ_WT19)	17:38	35	17:07 (KLZ_WT16)	18:28			20:20	17	08:04 (SAM_WT11)	21:09	7	20:41 (KLZ_WT13)	21:53	20	06:48 (SAM_WT06)
4	08:49		11:32 (KLZ_WT19)	08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		20:34 (KLZ_WT13)	05:34		06:29 (SAM_WT06)
	16:51	47	12:19 (KLZ_WT19)	17:40	33	09:56 (CBR_WT01)	18:30			20:22	21	08:06 (SAM_WT07)	21:11	9	20:43 (KLZ_WT13)	21:54	18	06:47 (SAM_WT06)
5	08:49		11:34 (KLZ_WT19)	08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:52	45	12:19 (KLZ_WT19)	17:42	32	09:55 (CBR_WT01)	18:32			20:24	24	08:07 (SAM_WT07)	21:13	10	20:44 (KLZ_WT13)	21:55	17	06:47 (SAM_WT06)
6	08:49		11:34 (KLZ_WT19)	08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:54	45	12:19 (KLZ_WT19)	17:44	30	09:54 (CBR_WT01)	18:33			20:25	27	08:07 (SAM_WT07)	21:14	11	20:45 (KLZ_WT13)	21:56	16	06:46 (SAM_WT06)
7	08:48		11:35 (KLZ_WT19)	08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:55	44	12:19 (KLZ_WT19)	17:45	28	09:53 (CBR_WT01)	18:35			20:27	29	08:08 (SAM_WT07)	21:16	13	20:47 (KLZ_WT13)	21:56	16	06:47 (SAM_WT06)
8	08:48		11:36 (KLZ_WT19)	08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:56	43	12:19 (KLZ_WT19)	17:47	27	09:53 (CBR_WT01)	18:37			20:29	31	08:09 (SAM_WT07)	21:17	14	20:48 (KLZ_WT13)	21:57	15	06:46 (SAM_WT06)
9	08:47		11:37 (KLZ_WT19)	08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58	42	12:19 (KLZ_WT19)	17:49	23	09:51 (CBR_WT01)	18:39			20:30	31	08:09 (SAM_WT07)	21:19	25	20:49 (KLZ_WT13)	21:58	12	06:45 (SAM_WT06)
10	08:47		11:38 (KLZ_WT19)	08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59	41	12:19 (KLZ_WT19)	17:51	20	09:49 (CBR_WT01)	18:40			20:32	32	08:09 (SAM_WT07)	21:21	27	20:48 (KLZ_WT13)	21:59	11	06:45 (SAM_WT06)
11	08:46		09:31 (CBR_WT01)	08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	43	12:18 (KLZ_WT19)	17:53	16	09:47 (CBR_WT01)	18:42			20:33	32	08:09 (SAM_WT07)	21:22	26	20:47 (KLZ_WT13)	22:00	10	06:45 (SAM_WT06)
12	08:46		09:28 (CBR_WT01)	08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	47	12:17 (KLZ_WT19)	17:54	9	09:43 (CBR_WT01)	18:44			20:35	33	08:08 (SAM_WT07)	21:24	26	20:45 (KLZ_WT13)	22:00	9	06:44 (SAM_WT06)
13	08:45		09:27 (CBR_WT01)	08:04			07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	50	12:18 (KLZ_WT19)	17:56			18:45	1	07:29 (SAM_WT04)	20:37	33	08:08 (SAM_WT07)	21:25	21	06:48 (SAM_WT06)	22:01	7	06:43 (SAM_WT06)
14	08:44		09:26 (CBR_WT01)	08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	51	12:17 (KLZ_WT19)	17:58	4	08:30 (SAM_WT05)	18:47	4	07:30 (SAM_WT04)	20:38	33	08:08 (SAM_WT07)	21:27	23	06:48 (SAM_WT06)	22:01	5	06:43 (SAM_WT06)
15	08:44		09:25 (CBR_WT01)	08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	50	12:16 (KLZ_WT19)	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	32	08:07 (SAM_WT07)	21:28	24	06:49 (SAM_WT06)	22:02	3	06:42 (SAM_WT06)
16	08:43		09:24 (CBR_WT01)	07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		
	17:08	51	12:15 (KLZ_WT19)	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	34	08:07 (SAM_WT07)	21:30	25	06:50 (SAM_WT06)	22:03		
17	08:42		09:23 (CBR_WT01)	07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		
	17:09	49	12:13 (KLZ_WT19)	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	34	08:06 (SAM_WT07)	21:31	25	06:49 (SAM_WT06)	22:03		
18	08:41		09:23 (CBR_WT01)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		
	17:11	45	12:11 (KLZ_WT19)	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	34	08:05 (SAM_WT07)	21:33	27	21:03 (EVE_WT01)	22:03		
19	08:40		09:22 (CBR_WT01)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		
	17:12	42	12:08 (KLZ_WT19)	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	36	20:20 (EVE_WT02)	21:34	28	21:04 (EVE_WT01)	22:04		
20	08:39		09:22 (CBR_WT01)	07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		
	17:14	29	09:51 (CBR_WT01)	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	35	20:22 (EVE_WT02)	21:35	31	21:06 (EVE_WT01)	22:04		
21	08:38		09:21 (CBR_WT01)	07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		
	17:16	30	09:51 (CBR_WT01)	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	28	20:23 (EVE_WT02)	21:37	33	21:06 (EVE_WT01)	22:04		
22	08:37		09:21 (CBR_WT01)	07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		
	17:17	31	09:52 (CBR_WT01)	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	27	20:25 (EVE_WT02)	21:38	35	21:07 (EVE_WT01)	22:05		
23	08:36		09:21 (CBR_WT01)	07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		
	17:19	32	09:53 (CBR_WT01)	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	22	20:26 (EVE_WT02)	21:39	36	21:09 (EVE_WT01)	22:05		
24	08:35		09:20 (CBR_WT01)	07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		
	17:21	33	09:53 (CBR_WT01)	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	13	20:28 (EVE_WT02)	21:41	37	21:10 (EVE_WT01)	22:05		
25	08:34		09:20 (CBR_WT01)	07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		20:17 (EVE_WT02)	05:43		06:24 (SAM_WT06)	05:31		
	17:22	34	09:54 (CBR_WT01)	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	12	20:29 (EVE_WT02)	21:42	36	21:11 (EVE_WT01)	22:05		
26	08:32		09:21 (CBR_WT01)	07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		20:18 (EVE_WT02)	05:42		06:24 (SAM_WT06)	05:31		
	17:24	34	09:55 (CBR_WT01)	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	9	20:27 (EVE_WT02)	21:43	36	21:12 (EVE_WT01)	22:05		
27	08:31		09:20 (CBR_WT01)	07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		20:21 (EVE_WT02)	05:41		06:25 (SAM_WT06)	05:32		
	17:26	35	09:55 (CBR_WT01)	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	3	20:24 (EVE_WT02)	21:45	36	21:13 (EVE_WT01)	22:05		
28	08:30		09:21 (CBR_WT01)	07:34			06:32		06:54 (SAM_WT11)	06:26			05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	35	09:56 (CBR_WT01)	18:23			19:10	15	07:09 (SAM_WT11)	21:01			21:46	36	21:14 (EVE_WT01)	22:05	4	06:45 (SAM_WT06)
29	08:28		09:20 (CBR_WT01)				07:30		07:52 (SAM_WT11)	06:24			05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	35	09:55 (CBR_WT01)				20:12	17	08:09 (SAM_WT11)	21:03			21:47	36	21:16 (EVE_WT01)	22:05	6	06:46 (SAM_WT06)
30	08:27		09:21 (CBR_WT01)				07:28		07:50 (SAM_WT11)	06:22			05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	35	09:56 (CBR_WT01)				20:14	19	08:09 (SAM_WT11)	21:05			21:48	35	21:15 (EVE_WT01)	22:04	8	06:48 (SAM_WT06)
31	08:25		09:21 (CBR_WT01)				07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	37	17:03 (KLZ_WT16)				20:15	20	08:08 (SAM_WT11)				21:49	31	21:14 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1279			562			201			699			766			231	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,58			0,55			0,61			0,62			0,65			0,68	
Total reduction		0,14			0,16			0,23			0,28			0,29			0,29	
Total, real		180			90			45			197			222			68	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	10	06:49 (SAM_WT06)	21:34	26	20:56 (KLZ_WT13)	20:33	32	08:08 (SAM_WT07)	19:25			17:21	22	09:20 (CBR_WT01)	16:42	43	12:00 (KLZ_WT19)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		11:21 (KLZ_WT19)
	22:04	11	06:49 (SAM_WT06)	21:32	26	20:58 (KLZ_WT13)	20:31	32	08:07 (SAM_WT07)	19:23			17:19	24	09:21 (CBR_WT01)	16:41	41	12:02 (KLZ_WT19)
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		11:20 (KLZ_WT19)
	22:04	12	06:50 (SAM_WT06)	21:30	27	20:59 (KLZ_WT13)	20:29	31	08:07 (SAM_WT07)	19:21			17:17	27	09:22 (CBR_WT01)	16:41	42	12:02 (KLZ_WT19)
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		11:21 (KLZ_WT19)
	22:03	14	06:52 (SAM_WT06)	21:29	22	20:59 (KLZ_WT13)	20:27	31	08:06 (SAM_WT07)	19:19			17:16	29	09:23 (CBR_WT01)	16:40	43	12:04 (KLZ_WT19)
5	05:37		06:37 (SAM_WT06)	06:15		20:45 (KLZ_WT13)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		11:20 (KLZ_WT19)
	22:03	15	06:52 (SAM_WT06)	21:27	13	20:58 (KLZ_WT13)	20:24	29	08:05 (SAM_WT07)	19:16			17:14	30	09:24 (CBR_WT01)	16:40	44	12:04 (KLZ_WT19)
6	05:37		06:37 (SAM_WT06)	06:17		20:44 (KLZ_WT13)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		11:20 (KLZ_WT19)
	22:02	16	06:53 (SAM_WT06)	21:25	12	20:56 (KLZ_WT13)	20:22	26	08:03 (SAM_WT07)	19:14			17:12	32	09:25 (CBR_WT01)	16:39	45	12:05 (KLZ_WT19)
7	05:38		06:36 (SAM_WT06)	06:18		20:44 (KLZ_WT13)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		11:21 (KLZ_WT19)
	22:02	17	06:53 (SAM_WT06)	21:23	11	20:55 (KLZ_WT13)	20:20	24	08:02 (SAM_WT07)	19:12			17:11	33	09:26 (CBR_WT01)	16:39	46	12:07 (KLZ_WT19)
8	05:39		06:36 (SAM_WT06)	06:20		20:43 (KLZ_WT13)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		11:21 (KLZ_WT19)
	22:01	18	06:54 (SAM_WT06)	21:22	10	20:53 (KLZ_WT13)	20:18	21	08:00 (SAM_WT07)	19:10			17:09	36	16:39 (KLZ_WT16)	16:39	46	12:07 (KLZ_WT19)
9	05:40		06:36 (SAM_WT06)	06:21		20:43 (KLZ_WT13)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		11:21 (KLZ_WT19)
	22:00	19	06:55 (SAM_WT06)	21:20	8	20:51 (KLZ_WT13)	20:15	17	07:58 (SAM_WT07)	19:08			17:07	39	16:38 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
10	05:41		06:36 (SAM_WT06)	06:23		20:44 (KLZ_WT13)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		11:21 (KLZ_WT19)
	22:00	24	21:20 (EVE_WT01)	21:18	6	20:50 (KLZ_WT13)	20:13	18	07:59 (SAM_WT11)	19:05			17:06	38	16:36 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
11	05:42		06:36 (SAM_WT06)	06:24		20:44 (KLZ_WT13)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		11:21 (KLZ_WT19)
	21:59	27	21:21 (EVE_WT01)	21:16	4	20:48 (KLZ_WT13)	20:11	20	08:00 (SAM_WT11)	19:03			17:04	37	16:35 (KLZ_WT16)	16:38	48	12:09 (KLZ_WT19)
12	05:43		06:35 (SAM_WT06)	06:26		20:45 (KLZ_WT13)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		11:21 (KLZ_WT19)
	21:58	30	21:22 (EVE_WT01)	21:14	1	20:46 (KLZ_WT13)	20:09	20	07:59 (SAM_WT11)	19:01			17:03	35	09:27 (CBR_WT01)	16:38	48	12:09 (KLZ_WT19)
13	05:44		06:35 (SAM_WT06)	06:27			07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		11:21 (KLZ_WT19)
	21:57	33	21:23 (EVE_WT01)	21:12			20:06	19	08:00 (SAM_WT11)	18:59			17:01	35	09:27 (CBR_WT01)	16:38	49	12:10 (KLZ_WT19)
14	05:45		06:35 (SAM_WT06)	06:29			07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		11:21 (KLZ_WT19)
	21:56	34	21:24 (EVE_WT01)	21:11			20:04	17	07:59 (SAM_WT11)	18:57	2	08:57 (SAM_WT05)	17:00	35	09:28 (CBR_WT01)	16:38	50	12:11 (KLZ_WT19)
15	05:46		06:35 (SAM_WT06)	06:30			07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		11:22 (KLZ_WT19)
	21:55	36	21:24 (EVE_WT01)	21:09			20:02	15	07:59 (SAM_WT11)	18:55	11	09:02 (SAM_WT05)	16:59	35	09:28 (CBR_WT01)	16:38	50	12:12 (KLZ_WT19)
16	05:48		06:34 (SAM_WT06)	06:32		20:27 (EVE_WT02)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		11:22 (KLZ_WT19)
	21:54	36	21:23 (EVE_WT01)	21:07	5	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	34	09:28 (CBR_WT01)	16:38	50	12:12 (KLZ_WT19)
17	05:49		06:34 (SAM_WT06)	06:33		20:24 (EVE_WT02)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		11:23 (KLZ_WT19)
	21:53	36	21:22 (EVE_WT01)	21:05	10	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	34	09:28 (CBR_WT01)	16:38	50	12:13 (KLZ_WT19)
18	05:50		06:34 (SAM_WT06)	06:35		20:23 (EVE_WT02)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:52	36	21:21 (EVE_WT01)	21:03	12	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39	50	12:13 (KLZ_WT19)
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:51	37	21:20 (EVE_WT01)	21:01	16	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39	51	12:14 (KLZ_WT19)
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		11:24 (KLZ_WT19)
	21:50	38	21:19 (EVE_WT01)	20:59	24	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39	51	12:15 (KLZ_WT19)
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		11:24 (KLZ_WT19)
	21:49	37	21:19 (EVE_WT01)	20:57	26	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40	51	12:15 (KLZ_WT19)
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		11:25 (KLZ_WT19)
	21:48	35	21:17 (EVE_WT01)	20:55	29	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40	51	12:16 (KLZ_WT19)
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:47	32	21:16 (EVE_WT01)	20:52	36	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	42	11:44 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:45	29	21:14 (EVE_WT01)	20:50	35	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	46	11:48 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		11:27 (KLZ_WT19)
	21:44	29	21:14 (EVE_WT01)	20:48	34	08:08 (SAM_WT07)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	49	11:51 (KLZ_WT19)	16:42	50	12:17 (KLZ_WT19)
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:43	26	07:00 (SAM_WT06)	20:46	34	08:09 (SAM_WT07)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	51	11:53 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:41	26	07:00 (SAM_WT06)	20:44	34	08:09 (SAM_WT07)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	51	11:55 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:40	24	07:00 (SAM_WT06)	20:42	32	08:09 (SAM_WT07)	19:32	8	08:12 (SAM_WT04)	17:28	3	07:59 (SAM_WT05)	16:44	51	11:57 (KLZ_WT19)	16:44	49	12:17 (KLZ_WT19)
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31			08:23		09:07 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:38	23	06:59 (SAM_WT06)	20:40	33	08:09 (SAM_WT07)	19:30	6	08:12 (SAM_WT04)	17:26			16:43	50	11:58 (KLZ_WT19)	16:45	50	12:18 (KLZ_WT19)
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		11:29 (KLZ_WT19)
	21:37	22	06:58 (SAM_WT06)	20:38	33	08:09 (SAM_WT07)	19:28	2	08:09 (SAM_WT04)	17:25	11	09:14 (CBR_WT01)	16:43	47	11:59 (KLZ_WT19)	16:46	49	12:18 (KLZ_WT19)
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		11:30 (KLZ_WT19)
	21:35	21	06:58 (SAM_WT06)	20:35	33	08:08 (SAM_WT07)				17:23	17	09:17 (CBR_WT01)				16:47	48	12:18 (KLZ_WT19)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		803			592			488			266			1097			1491	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,67			0,61			0,62			0,56			0,55			0,62	
Total reduction		0,29			0,28			0,26			0,20			0,14			0,14	
Total, real		235			165			128			53			158			204	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February			March			April			May			June		
1	08:49	08:24			07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48	17:35			18:25	98	17:51 (KLZ_WT10)	20:17	230	18:47 (KLZ_WT19)	21:06	110	20:38 (EVE_WT02)	21:50	20	06:24 (SAM_WT11)
2	08:49	08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49	17:36			18:26	102	17:51 (KLZ_WT10)	20:19	226	18:46 (KLZ_WT19)	21:08	106	20:40 (EVE_WT02)	21:51	21	06:25 (SAM_WT11)
3	08:49	08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50	17:38			18:28	104	17:50 (KLZ_WT10)	20:20	221	18:43 (KLZ_WT19)	21:09	102	20:41 (EVE_WT02)	21:53	22	06:25 (SAM_WT11)
4	08:49	08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51	17:40			18:30	109	17:49 (KLZ_WT10)	20:22	216	18:41 (KLZ_WT19)	21:11	96	16:17 (CBR_WT01)	21:54	24	06:26 (SAM_WT11)
5	08:49	08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52	17:42			18:32	116	17:46 (KLZ_WT10)	20:24	207	18:37 (KLZ_WT19)	21:13	91	16:16 (CBR_WT01)	21:55	25	06:27 (SAM_WT11)
6	08:49	08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54	17:44			18:33	125	17:48 (KLZ_WT19)	20:25	192	16:34 (CBR_WT01)	21:14	85	16:14 (CBR_WT01)	21:55	26	06:27 (SAM_WT11)
7	08:48	08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55	17:45			18:35	133	17:51 (KLZ_WT19)	20:27	191	16:34 (CBR_WT01)	21:16	79	16:13 (CBR_WT01)	21:56	27	06:28 (SAM_WT11)
8	08:48	08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56	17:47			18:37	140	17:53 (KLZ_WT19)	20:28	189	16:34 (CBR_WT01)	21:17	72	16:11 (CBR_WT01)	21:57	28	06:28 (SAM_WT11)
9	08:47	08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57	17:49			18:38	145	17:53 (KLZ_WT19)	20:30	187	16:34 (CBR_WT01)	21:19	66	16:10 (CBR_WT01)	21:58	29	06:29 (SAM_WT11)
10	08:47	08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59	17:51			18:40	151	17:55 (KLZ_WT19)	20:32	185	16:34 (CBR_WT01)	21:20	58	16:08 (CBR_WT01)	21:59	29	06:29 (SAM_WT11)
11	08:46	08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00	17:53			18:42	155	17:56 (KLZ_WT19)	20:33	182	16:32 (CBR_WT01)	21:22	51	16:07 (CBR_WT01)	21:59	30	06:29 (SAM_WT11)
12	08:46	08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02	17:54			18:44	160	17:57 (KLZ_WT19)	20:35	179	16:32 (CBR_WT01)	21:24	42	20:54 (KLZ_WT13)	22:00	31	06:30 (SAM_WT11)
13	08:45	08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03	17:56			18:45	164	17:57 (KLZ_WT19)	20:37	175	16:32 (CBR_WT01)	21:25	29	20:56 (KLZ_WT13)	22:01	31	06:30 (SAM_WT11)
14	08:44	08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:55 (KLZ_WT13)	05:30		05:59 (SAM_WT11)
	17:05	17:58			18:47	168	17:58 (KLZ_WT19)	20:38	171	16:31 (CBR_WT01)	21:27	2	20:57 (KLZ_WT13)	22:01	32	06:31 (SAM_WT11)
15	08:44	08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56			05:30		05:59 (SAM_WT11)
	17:06	18:00			18:49	177	17:59 (KLZ_WT19)	20:40	167	16:31 (CBR_WT01)	21:28			22:02	32	06:31 (SAM_WT11)
16	08:43	07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55			05:29		05:59 (SAM_WT11)
	17:08	18:02			18:50	193	17:59 (KLZ_WT19)	20:42	161	16:31 (CBR_WT01)	21:30			22:02	33	06:32 (SAM_WT11)
17	08:42	07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53			05:29		05:59 (SAM_WT11)
	17:09	18:03			18:52	202	17:59 (KLZ_WT19)	20:43	155	16:30 (CBR_WT01)	21:31			22:03	33	06:32 (SAM_WT11)
18	08:41	07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52			05:29		05:59 (SAM_WT11)
	17:11	18:05			18:54	211	17:59 (KLZ_WT19)	20:45	149	16:30 (CBR_WT01)	21:32			22:03	33	06:32 (SAM_WT11)
19	08:40	07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51			05:29		05:59 (SAM_WT11)
	17:12	18:07			18:55	217	17:59 (KLZ_WT19)	20:47	139	16:29 (CBR_WT01)	21:34			22:04	33	06:32 (SAM_WT11)
20	08:39	07:51			06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49			05:30		05:59 (SAM_WT11)
	17:14	18:09			18:57	221	17:59 (KLZ_WT19)	20:48	130	16:29 (CBR_WT01)	21:35			22:04	33	06:32 (SAM_WT11)
21	08:38	07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48			05:30		05:59 (SAM_WT11)
	17:16	18:11	27	14:48 (CBR_WT01)	18:59	225	17:58 (KLZ_WT19)	20:50	129	16:28 (CBR_WT01)	21:37			22:04	33	06:32 (SAM_WT11)
22	08:37	07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47			05:30		06:00 (SAM_WT11)
	17:17	18:12	38	14:53 (CBR_WT01)	19:00	228	17:58 (KLZ_WT19)	20:51	131	16:27 (CBR_WT01)	21:38			22:04	33	06:33 (SAM_WT11)
23	08:36	07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46			05:30		06:00 (SAM_WT11)
	17:19	18:14	52	17:46 (KLZ_WT10)	19:02	231	17:58 (KLZ_WT19)	20:53	131	16:27 (CBR_WT01)	21:39			22:05	33	06:33 (SAM_WT11)
24	08:35	07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21	18:16	66	17:50 (KLZ_WT08)	19:04	233	17:56 (KLZ_WT19)	20:55	130	16:26 (CBR_WT01)	21:41	2	21:10 (EVE_WT01)	22:05	33	06:33 (SAM_WT11)
25	08:33	07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22	18:18	76	17:52 (KLZ_WT08)	19:05	235	17:56 (KLZ_WT19)	20:56	129	16:25 (CBR_WT01)	21:42	3	21:11 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
26	08:32	07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24	18:19	85	17:54 (KLZ_WT08)	19:07	236	17:55 (KLZ_WT19)	20:58	126	16:24 (CBR_WT01)	21:43	7	21:12 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
27	08:31	07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26	18:21	93	17:55 (KLZ_WT08)	19:09	237	17:55 (KLZ_WT19)	21:00	123	16:23 (CBR_WT01)	21:45	10	21:13 (EVE_WT01)	22:05	32	06:33 (SAM_WT11)
28	08:30	07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28	18:23	97	17:54 (KLZ_WT08)	19:10	236	17:53 (KLZ_WT19)	21:01	119	16:22 (CBR_WT01)	21:46	12	06:19 (SAM_WT11)	22:05	32	06:34 (SAM_WT11)
29	08:28				07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29				20:12	234	18:52 (KLZ_WT19)	21:03	116	16:22 (CBR_WT01)	21:47	14	06:20 (SAM_WT11)	22:05	31	06:33 (SAM_WT11)
30	08:27				07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31				20:14	235	18:51 (KLZ_WT19)	21:05	112	16:21 (CBR_WT01)	21:48	16	06:22 (SAM_WT11)	22:04	31	06:34 (SAM_WT11)
31	08:25				07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33				20:15	234	18:50 (KLZ_WT19)				21:49	18	06:23 (SAM_WT11)			
Potential sun hours	262	279			367			415			482			495		
Total, worst case			534			5655			4898			1071			896	
Sun reduction			0,30			0,38			0,46			0,46			0,44	
Oper. time red.			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.			0,72			0,69			0,70			0,70			0,71	
Total reduction			0,21			0,26			0,32			0,31			0,31	
Total, real			112			1452			1544			335			274	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November	December
1	05:34		06:04 (SAM_WT08)	06:09		07:09 (SAM_WT04)	06:57		08:19 (SAM_WT05)	07:44		14:12 (CBR_WT01)	07:36	08:26
	22:04	30	06:34 (SAM_WT11)	21:33	45	16:15 (CBR_WT01)	20:33	182	16:32 (CBR_WT01)	19:25	162	18:36 (KLZ_WT19)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10		07:07 (SAM_WT04)	06:59		08:18 (SAM_WT05)	07:46		14:13 (CBR_WT01)	07:38	08:27
	22:04	30	06:34 (SAM_WT11)	21:32	54	16:17 (CBR_WT01)	20:31	184	16:31 (CBR_WT01)	19:23	159	18:36 (KLZ_WT19)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12		07:07 (SAM_WT04)	07:00		08:17 (SAM_WT05)	07:48		14:14 (CBR_WT01)	07:40	08:29
	22:03	29	06:34 (SAM_WT11)	21:30	61	16:19 (CBR_WT01)	20:29	187	16:32 (CBR_WT01)	19:21	153	18:33 (KLZ_WT19)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13		07:05 (SAM_WT04)	07:02		08:16 (SAM_WT05)	07:49		14:15 (CBR_WT01)	07:42	08:30
	22:03	28	06:34 (SAM_WT11)	21:29	69	16:21 (CBR_WT01)	20:27	189	16:31 (CBR_WT01)	19:19	148	18:32 (KLZ_WT19)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15		07:05 (SAM_WT04)	07:03		08:15 (SAM_WT05)	07:51		14:16 (CBR_WT01)	07:43	08:31
	22:03	27	06:33 (SAM_WT11)	21:27	75	16:22 (CBR_WT01)	20:24	191	16:31 (CBR_WT01)	19:16	142	18:30 (KLZ_WT19)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16		07:04 (SAM_WT04)	07:05		08:14 (SAM_WT05)	07:52		14:17 (CBR_WT01)	07:45	08:33
	22:02	26	06:33 (SAM_WT11)	21:25	81	16:23 (CBR_WT01)	20:22	192	16:30 (CBR_WT01)	19:14	136	18:28 (KLZ_WT19)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18		07:04 (SAM_WT04)	07:06		08:14 (SAM_WT05)	07:54		14:18 (CBR_WT01)	07:47	08:34
	22:02	25	06:33 (SAM_WT11)	21:23	87	16:25 (CBR_WT01)	20:20	207	18:32 (KLZ_WT19)	19:12	129	18:25 (KLZ_WT19)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20		07:03 (SAM_WT04)	07:08		08:13 (SAM_WT05)	07:56		14:20 (CBR_WT01)	07:49	08:35
	22:01	24	06:33 (SAM_WT11)	21:22	92	16:25 (CBR_WT01)	20:18	216	18:35 (KLZ_WT19)	19:10	120	18:23 (KLZ_WT19)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21		07:02 (SAM_WT04)	07:10		08:13 (SAM_WT05)	07:57		14:20 (CBR_WT01)	07:50	08:36
	22:00	23	06:33 (SAM_WT11)	21:20	98	20:51 (EVE_WT02)	20:15	221	18:37 (KLZ_WT19)	19:08	114	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23		07:02 (SAM_WT04)	07:11		08:12 (SAM_WT05)	07:59		14:22 (CBR_WT01)	07:52	08:37
	22:00	22	06:33 (SAM_WT11)	21:18	103	20:50 (EVE_WT02)	20:13	227	18:39 (KLZ_WT19)	19:05	105	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24		07:01 (SAM_WT04)	07:13		08:12 (SAM_WT05)	08:01		14:24 (CBR_WT01)	07:54	08:38
	21:59	20	06:32 (SAM_WT11)	21:16	108	20:48 (EVE_WT02)	20:11	229	18:40 (KLZ_WT19)	19:03	103	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26		07:02 (SAM_WT04)	07:14		08:11 (SAM_WT05)	08:02		14:25 (CBR_WT01)	07:56	08:39
	21:58	19	06:32 (SAM_WT11)	21:14	110	16:29 (CBR_WT01)	20:09	233	18:41 (KLZ_WT19)	19:01	100	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27		07:01 (SAM_WT04)	07:16		08:12 (SAM_WT05)	08:04		14:27 (CBR_WT01)	07:57	08:40
	21:57	17	06:31 (SAM_WT11)	21:12	115	16:29 (CBR_WT01)	20:06	233	18:42 (KLZ_WT19)	18:59	97	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29		07:02 (SAM_WT04)	07:17		08:11 (SAM_WT05)	08:06		14:29 (CBR_WT01)	07:59	08:41
	21:56	15	06:30 (SAM_WT11)	21:11	118	16:30 (CBR_WT01)	20:04	236	18:42 (KLZ_WT19)	18:57	96	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30		07:01 (SAM_WT04)	07:19		08:11 (SAM_WT05)	08:07		14:32 (CBR_WT01)	08:01	08:42
	21:55	13	06:29 (SAM_WT11)	21:09	122	16:30 (CBR_WT01)	20:02	237	18:43 (KLZ_WT19)	18:55	89	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32		07:02 (SAM_WT04)	07:21		08:11 (SAM_WT05)	08:09		14:33 (CBR_WT01)	08:02	08:43
	21:54	11	06:28 (SAM_WT11)	21:07	124	16:31 (CBR_WT01)	19:59	236	18:43 (KLZ_WT19)	18:52	82	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33		07:02 (SAM_WT04)	07:22		08:12 (SAM_WT05)	08:11		14:36 (CBR_WT01)	08:04	08:44
	21:53	9	21:22 (EVE_WT01)	21:05	127	16:31 (CBR_WT01)	19:57	236	18:44 (KLZ_WT19)	18:50	72	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35		07:03 (SAM_WT04)	07:24		08:11 (SAM_WT05)	08:12		14:40 (CBR_WT01)	08:06	08:44
	21:52	5	21:21 (EVE_WT01)	21:03	129	16:32 (CBR_WT01)	19:55	235	18:43 (KLZ_WT19)	18:48	60	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37		07:04 (SAM_WT04)	07:25		08:12 (SAM_WT05)	08:14		14:43 (CBR_WT01)	08:07	08:45
	21:51	3	21:20 (EVE_WT01)	21:01	130	16:32 (CBR_WT01)	19:53	234	18:44 (KLZ_WT19)	18:46	45	15:28 (CBR_WT01)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38		07:05 (SAM_WT04)	07:27		08:13 (SAM_WT05)	08:16		14:47 (CBR_WT01)	08:09	08:46
	21:50	2	21:19 (EVE_WT01)	20:59	131	16:32 (CBR_WT01)	19:50	233	18:44 (KLZ_WT19)	18:44	35	15:22 (CBR_WT01)	16:52	16:39
21	05:54			06:40		07:06 (SAM_WT04)	07:28		08:14 (SAM_WT05)	08:17		14:54 (CBR_WT01)	08:11	08:46
	21:49			20:57	130	16:32 (CBR_WT01)	19:48	228	18:43 (KLZ_WT19)	18:42	22	15:16 (CBR_WT01)	16:51	16:40
22	05:55			06:41		07:09 (SAM_WT04)	07:30		08:15 (SAM_WT05)	08:19			08:12	08:47
	21:48			20:55	129	16:33 (CBR_WT01)	19:46	227	18:44 (KLZ_WT19)	18:40			16:50	16:40
23	05:56			06:43		08:39 (SAM_WT05)	07:32		08:16 (SAM_WT05)	08:21			08:14	08:47
	21:46			20:52	128	16:32 (CBR_WT01)	19:43	222	18:43 (KLZ_WT19)	18:38			16:49	16:41
24	05:58			06:44		08:35 (SAM_WT05)	07:33		08:17 (SAM_WT05)	08:23			08:15	08:48
	21:45			20:50	141	16:33 (CBR_WT01)	19:41	217	18:43 (KLZ_WT19)	18:36			16:48	16:41
25	05:59			06:46		08:31 (SAM_WT05)	07:35		08:18 (SAM_WT05)	07:24			08:17	08:48
	21:44			20:48	149	16:32 (CBR_WT01)	19:39	212	18:42 (KLZ_WT19)	17:34			16:47	16:42
26	06:00			06:48		08:29 (SAM_WT05)	07:36		08:21 (SAM_WT05)	07:26			08:19	08:49
	21:42			20:46	156	16:33 (CBR_WT01)	19:37	205	18:41 (KLZ_WT19)	17:32			16:46	16:43
27	06:02			06:49		08:26 (SAM_WT05)	07:38		08:24 (SAM_WT05)	07:28			08:20	08:49
	21:41			20:44	162	16:32 (CBR_WT01)	19:34	196	18:41 (KLZ_WT19)	17:30			16:45	16:43
28	06:03			06:51		08:25 (SAM_WT05)	07:40		08:27 (SAM_WT05)	07:29			08:22	08:49
	21:40			20:42	167	16:33 (CBR_WT01)	19:32	186	18:40 (KLZ_WT19)	17:28			16:44	16:44
29	06:05		21:07 (KLZ_WT13)	06:52		08:23 (SAM_WT05)	07:41		14:11 (CBR_WT01)	07:31			08:23	08:49
	21:38	1	21:08 (KLZ_WT13)	20:40	171	16:32 (CBR_WT01)	19:30	169	18:39 (KLZ_WT19)	17:26			16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54		08:22 (SAM_WT05)	07:43		14:11 (CBR_WT01)	07:33			08:24	08:49
	21:37	16	21:07 (KLZ_WT13)	20:38	175	16:33 (CBR_WT01)	19:28	166	18:37 (KLZ_WT19)	17:25			16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55		08:20 (SAM_WT05)				07:35				08:49
	21:35	34	21:06 (KLZ_WT13)	20:35	179	16:32 (CBR_WT01)				17:23				16:47
Potential sun hours	498			451			380			333			269	248
Total, worst case		429			3666			6366			2169			
Sun reduction		0,45			0,47			0,43			0,36			
Oper. time red.		0,97			0,97			0,97			0,97			
Wind dir. red.		0,71			0,71			0,69			0,71			
Total reduction		0,31			0,32			0,29			0,25			
Total, real		132			1178			1848			549			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:49			08:24			07:32			07:23		19:33 (KLZ_WT19)	06:20		19:41 (SAM_WT05)	05:36		20:49 (KLZ_WT23)
	16:48			17:34			18:25			20:17	18	19:51 (CBR_WT01)	21:06	20	20:01 (SAM_WT05)	21:50	22	21:19 (SAM_WT07)
2	08:49			08:22			07:30			07:21		19:32 (CBR_WT01)	06:18		19:42 (SAM_WT05)	05:35		20:50 (KLZ_WT23)
	16:49			17:36			18:26			20:18	20	19:52 (CBR_WT01)	21:08	17	19:59 (SAM_WT05)	21:51	21	21:19 (SAM_WT07)
3	08:49			08:21			07:28			07:19		19:31 (CBR_WT01)	06:16		19:44 (SAM_WT05)	05:35		20:51 (KLZ_WT23)
	16:50			17:38			18:28			20:20	21	19:52 (CBR_WT01)	21:09	12	19:56 (SAM_WT05)	21:52	22	21:21 (SAM_WT07)
4	08:49			08:19			07:26			07:16		19:31 (CBR_WT01)	06:14			05:34		20:52 (KLZ_WT23)
	16:51			17:40			18:30			20:22	22	19:53 (CBR_WT01)	21:11			21:53	21	21:21 (SAM_WT07)
5	08:49			08:18		17:12 (ALB_WT01)	07:23			07:14		19:30 (CBR_WT01)	06:13			05:33		20:54 (KLZ_WT23)
	16:52			17:42	1	17:13 (ALB_WT01)	18:32			20:23	22	19:52 (CBR_WT01)	21:12			21:54	20	21:23 (SAM_WT07)
6	08:48			08:16		17:12 (ALB_WT01)	07:21			07:12		19:30 (CBR_WT01)	06:11			05:33		21:07 (SAM_WT07)
	16:54			17:43	3	17:15 (ALB_WT01)	18:33			20:25	21	19:51 (CBR_WT01)	21:14			21:55	16	21:23 (SAM_WT07)
7	08:48			08:14		17:13 (ALB_WT01)	07:19			07:10		19:30 (CBR_WT01)	06:09			05:32		21:07 (SAM_WT07)
	16:55			17:45	4	17:17 (ALB_WT01)	18:35			20:27	21	19:51 (CBR_WT01)	21:16			21:56	17	21:24 (SAM_WT07)
8	08:48			08:13			07:17			07:08		19:31 (CBR_WT01)	06:07			05:32		21:06 (SAM_WT07)
	16:56			17:47			18:37			20:28	19	19:50 (CBR_WT01)	21:17			21:57	18	21:24 (SAM_WT07)
9	08:47			08:11			07:15			07:05		19:32 (CBR_WT01)	06:06			05:31		21:07 (SAM_WT07)
	16:57			17:49			18:38			20:30	25	19:59 (SAM_WT05)	21:19			21:58	19	21:26 (SAM_WT07)
10	08:47			08:09			07:13			07:03		19:33 (CBR_WT01)	06:04			05:31		21:07 (SAM_WT07)
	16:59			17:51			18:40			20:32	30	20:03 (SAM_WT05)	21:20			21:59	20	21:27 (SAM_WT07)
11	08:46			08:07			07:10			07:01		19:34 (CBR_WT01)	06:02			05:30		21:06 (SAM_WT07)
	17:00			17:53			18:42			20:33	30	20:04 (SAM_WT05)	21:22			21:59	21	21:27 (SAM_WT07)
12	08:46		16:27 (RHR_WT01)	08:06			07:08			06:59		19:41 (SAM_WT05)	06:01			05:30		21:06 (SAM_WT07)
	17:02	1	16:28 (RHR_WT01)	17:54			18:43			20:35	25	20:06 (SAM_WT05)	21:23			22:00	21	21:27 (SAM_WT07)
13	08:45		16:26 (RHR_WT01)	08:04			07:06			06:57		19:40 (SAM_WT05)	05:59		20:50 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:03	4	16:30 (RHR_WT01)	17:56			18:45			20:37	27	20:07 (SAM_WT05)	21:25	6	20:56 (KLZ_WT23)	22:01	21	21:28 (SAM_WT07)
14	08:44		16:28 (RHR_WT01)	08:02			07:04			06:54		19:39 (SAM_WT05)	05:58		20:48 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:04	4	16:32 (RHR_WT01)	17:58			18:47			20:38	29	20:08 (SAM_WT05)	21:26	9	20:57 (KLZ_WT23)	22:01	22	21:29 (SAM_WT07)
15	08:44		16:28 (RHR_WT01)	08:00			07:01			06:52		19:38 (SAM_WT05)	05:56		20:47 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:06	6	16:34 (RHR_WT01)	18:00			18:49			20:40	31	20:09 (SAM_WT05)	21:28	12	20:59 (KLZ_WT23)	22:02	22	21:29 (SAM_WT07)
16	08:43		16:28 (RHR_WT01)	07:58		17:32 (MXS_WT01)	06:59			06:50		19:37 (SAM_WT05)	05:55		20:46 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:08	8	16:36 (RHR_WT01)	18:02	2	17:34 (MXS_WT01)	18:50			20:42	32	20:09 (SAM_WT05)	21:29	13	20:59 (KLZ_WT23)	22:02	23	21:30 (SAM_WT07)
17	08:42		16:28 (RHR_WT01)	07:56		17:32 (MXS_WT01)	06:57			06:48		19:36 (SAM_WT05)	05:53		20:45 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:09	9	16:37 (RHR_WT01)	18:03	4	17:36 (MXS_WT01)	18:52			20:43	33	20:09 (SAM_WT05)	21:31	16	21:01 (KLZ_WT23)	22:03	23	21:30 (SAM_WT07)
18	08:41		16:29 (RHR_WT01)	07:54		17:33 (MXS_WT01)	06:55			06:46		19:36 (SAM_WT05)	05:52		20:45 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:11	10	16:39 (RHR_WT01)	18:05	5	17:38 (MXS_WT01)	18:54			20:45	34	20:10 (SAM_WT05)	21:32	17	21:02 (KLZ_WT23)	22:03	23	21:30 (SAM_WT07)
19	08:40		16:30 (RHR_WT01)	07:52		17:34 (MXS_WT01)	06:52			06:44		19:35 (SAM_WT05)	05:51		20:45 (KLZ_WT23)	05:29		21:08 (SAM_WT07)
	17:12	11	16:41 (RHR_WT01)	18:07	6	17:40 (MXS_WT01)	18:55			20:46	35	20:10 (SAM_WT05)	21:34	18	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
20	08:39		16:29 (RHR_WT01)	07:50			06:50			06:42		19:35 (SAM_WT05)	05:49		20:44 (KLZ_WT23)	05:29		21:08 (SAM_WT07)
	17:14	13	16:42 (RHR_WT01)	18:09			18:57			20:48	35	20:10 (SAM_WT05)	21:35	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
21	08:38		16:31 (RHR_WT01)	07:48			06:48			06:40		19:35 (SAM_WT05)	05:48		20:44 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:16	13	16:44 (RHR_WT01)	18:10			18:59			20:50	34	20:09 (SAM_WT05)	21:37	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
22	08:37		16:32 (RHR_WT01)	07:46			06:46			06:38		19:35 (SAM_WT05)	05:47		20:44 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:17	12	16:44 (RHR_WT01)	18:12			19:00			20:51	34	20:09 (SAM_WT05)	21:38	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
23	08:36		16:33 (RHR_WT01)	07:44			06:43			06:36		19:35 (SAM_WT05)	05:45		20:45 (KLZ_WT23)	05:30		21:09 (SAM_WT07)
	17:19	11	16:44 (RHR_WT01)	18:14			19:02			20:53	34	20:09 (SAM_WT05)	21:39	19	21:04 (KLZ_WT23)	22:05	22	21:31 (SAM_WT07)
24	08:35		16:35 (RHR_WT01)	07:42			06:41			06:34		19:35 (SAM_WT05)	05:44		20:45 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:21	8	16:49 (RHR_WT03)	18:16			19:04			20:55	33	20:08 (SAM_WT05)	21:41	19	21:04 (KLZ_WT23)	22:05	23	21:31 (SAM_WT07)
25	08:33		16:49 (RHR_WT03)	07:40			06:39		18:39 (KLZ_WT19)	06:32		19:35 (SAM_WT05)	05:43		20:45 (KLZ_WT23)	05:31		21:08 (SAM_WT07)
	17:22	3	16:52 (RHR_WT03)	18:18			19:05	1	18:40 (KLZ_WT19)	20:56	32	20:07 (SAM_WT05)	21:42	18	21:03 (KLZ_WT23)	22:05	23	21:31 (SAM_WT07)
26	08:32		16:50 (RHR_WT03)	07:38			06:37		18:37 (KLZ_WT19)	06:30		19:35 (SAM_WT05)	05:42		20:45 (KLZ_WT23)	05:31		21:09 (SAM_WT07)
	17:24	4	16:54 (RHR_WT03)	18:19			19:07	5	18:42 (KLZ_WT19)	20:58	32	20:07 (SAM_WT05)	21:43	18	21:03 (KLZ_WT23)	22:05	23	21:32 (SAM_WT07)
27	08:31		16:50 (RHR_WT03)	07:36			06:34		18:36 (KLZ_WT19)	06:28		19:36 (SAM_WT05)	05:41		20:46 (KLZ_WT23)	05:31		21:09 (SAM_WT07)
	17:26	5	16:55 (RHR_WT03)	18:21			19:09	8	18:44 (KLZ_WT19)	21:00	30	20:06 (SAM_WT05)	21:44	17	21:03 (KLZ_WT23)	22:05	22	21:31 (SAM_WT07)
28	08:29		16:51 (RHR_WT03)	07:34			06:32		18:34 (KLZ_WT19)	06:26		19:36 (SAM_WT05)	05:40		20:46 (KLZ_WT23)	05:32		21:10 (SAM_WT07)
	17:27	7	16:58 (RHR_WT03)	18:23			19:10	11	18:45 (KLZ_WT19)	21:01	28	20:04 (SAM_WT05)	21:46	17	21:03 (KLZ_WT23)	22:05	22	21:32 (SAM_WT07)
29	08:28		16:52 (RHR_WT03)				07:30		19:33 (KLZ_WT19)	06:24		19:37 (SAM_WT05)	05:39		20:47 (KLZ_WT23)	05:32		21:10 (SAM_WT07)
	17:29	7	16:59 (RHR_WT03)				20:12	14	19:47 (KLZ_WT19)	21:03	26	20:03 (SAM_WT05)	21:47	15	21:02 (KLZ_WT23)	22:04	21	21:31 (SAM_WT07)
30	08:27		16:55 (RHR_WT03)				07:28		19:33 (KLZ_WT19)	06:22		19:39 (SAM_WT05)	05:38		20:48 (KLZ_WT23)	05:33		21:10 (SAM_WT07)
	17:31	4	16:59 (RHR_WT03)				20:14	16	19:49 (KLZ_WT19)	21:04	24	20:03 (SAM_WT05)	21:48	20	21:17 (SAM_WT07)	22:04	22	21:32 (SAM_WT07)
31	08:25						07:25		19:33 (KLZ_WT19)				05:37		20:48 (KLZ_WT23)			
	17:33						20:15	17	19:50 (KLZ_WT19)				21:49	22	21:18 (SAM_WT07)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		140			25			72			837			362			638	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,69			0,62			0,59			0,56			0,55	
Total reduction		0,17			0,20			0,23			0,27			0,25			0,24	
Total, real		24			5			16			223			90			152	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		21:10 (SAM_WT07)	06:09			06:57		19:33 (CBR_WT01)	07:44			07:36			08:26		
	22:04	21	21:31 (SAM_WT07)	21:33			20:33	30	20:03 (SAM_WT05)	19:25			17:21			16:42		
2	05:34		21:11 (SAM_WT07)	06:10			06:58		19:31 (CBR_WT01)	07:46			07:38			08:27		
	22:04	20	21:31 (SAM_WT07)	21:32			20:31	30	20:01 (SAM_WT05)	19:23			17:19			16:41		
3	05:35		21:12 (SAM_WT07)	06:12			07:00		19:30 (CBR_WT01)	07:47			07:40		16:45 (ALB_WT01)	08:29		
	22:03	19	21:31 (SAM_WT07)	21:30			20:29	25	19:57 (SAM_WT05)	19:21			17:17	2	16:47 (ALB_WT01)	16:41		
4	05:36		21:12 (SAM_WT07)	06:13			07:02		19:28 (CBR_WT01)	07:49			07:42		16:43 (ALB_WT01)	08:30		
	22:03	19	21:31 (SAM_WT07)	21:28			20:26	19	19:47 (CBR_WT01)	19:18			17:16	3	16:46 (ALB_WT01)	16:40		
5	05:37		21:12 (SAM_WT07)	06:15			07:03		19:27 (CBR_WT01)	07:51			07:43		16:42 (ALB_WT01)	08:31		
	22:02	18	21:30 (SAM_WT07)	21:27			20:24	21	19:48 (CBR_WT01)	19:16			17:14	2	16:44 (ALB_WT01)	16:40		
6	05:37		21:13 (SAM_WT07)	06:16			07:05		19:26 (CBR_WT01)	07:52			07:45		16:42 (ALB_WT01)	08:32		
	22:02	17	21:30 (SAM_WT07)	21:25			20:22	21	19:47 (CBR_WT01)	19:14			17:12	1	16:43 (ALB_WT01)	16:39		
7	05:38		21:14 (SAM_WT07)	06:18			07:06		19:26 (CBR_WT01)	07:54			07:47			08:34		
	22:01	15	21:29 (SAM_WT07)	21:23			20:20	22	19:48 (CBR_WT01)	19:12			17:10			16:39		
8	05:39		21:00 (KLZ_WT23)	06:19			07:08		19:25 (CBR_WT01)	07:56			07:49			08:35		
	22:01	21	21:29 (SAM_WT07)	21:22			20:17	22	19:47 (CBR_WT01)	19:10			17:09			16:39		
9	05:40		20:59 (KLZ_WT23)	06:21		19:57 (SAM_WT05)	07:09		19:26 (CBR_WT01)	07:57			07:50			08:36		
	22:00	21	21:28 (SAM_WT07)	21:20	4	20:01 (SAM_WT05)	20:15	21	19:47 (CBR_WT01)	19:07			17:07			16:38		
10	05:41		20:58 (KLZ_WT23)	06:23		19:53 (SAM_WT05)	07:11		19:25 (CBR_WT01)	07:59			07:52			08:37		
	21:59	22	21:28 (SAM_WT07)	21:18	13	20:06 (SAM_WT05)	20:13	20	19:45 (CBR_WT01)	19:05			17:06			16:38		
11	05:42		20:58 (KLZ_WT23)	06:24		19:50 (SAM_WT05)	07:13		19:26 (KLZ_WT19)	08:01			07:54			08:38		
	21:59	21	21:27 (SAM_WT07)	21:16	18	20:08 (SAM_WT05)	20:11	18	19:44 (CBR_WT01)	19:03			17:04			16:38		
12	05:43		20:57 (KLZ_WT23)	06:26		19:49 (SAM_WT05)	07:14		19:24 (KLZ_WT19)	08:02			07:55		16:26 (RHR_WT03)	08:39		
	21:58	22	21:27 (SAM_WT07)	21:14	21	20:10 (SAM_WT05)	20:08	18	19:42 (KLZ_WT19)	19:01			17:03	4	16:30 (RHR_WT03)	16:38		
13	05:44		20:57 (KLZ_WT23)	06:27		19:46 (SAM_WT05)	07:16		19:24 (KLZ_WT19)	08:04			07:57		16:24 (RHR_WT03)	08:40		
	21:57	20	21:26 (SAM_WT07)	21:12	24	20:10 (SAM_WT05)	20:06	16	19:40 (KLZ_WT19)	18:59			17:01	7	16:31 (RHR_WT03)	16:38		
14	05:45		20:56 (KLZ_WT23)	06:29		19:46 (SAM_WT05)	07:17		19:24 (KLZ_WT19)	08:06			07:59		16:23 (RHR_WT03)	08:41		
	21:56	17	21:25 (SAM_WT07)	21:10	26	20:12 (SAM_WT05)	20:04	13	19:37 (KLZ_WT19)	18:57			17:00	6	16:29 (RHR_WT03)	16:38		
15	05:46		20:56 (KLZ_WT23)	06:30		19:44 (SAM_WT05)	07:19		19:24 (KLZ_WT19)	08:07			08:01		16:23 (RHR_WT03)	08:42		
	21:55	16	21:12 (KLZ_WT23)	21:08	28	20:12 (SAM_WT05)	20:02	11	19:35 (KLZ_WT19)	18:54			16:58	5	16:28 (RHR_WT03)	16:38		
16	05:47		20:55 (KLZ_WT23)	06:32		19:43 (SAM_WT05)	07:20		19:24 (KLZ_WT19)	08:09			08:02		16:23 (RHR_WT03)	08:43		
	21:54	17	21:12 (KLZ_WT23)	21:07	30	20:13 (SAM_WT05)	19:59	9	19:33 (KLZ_WT19)	18:52			16:57	4	16:27 (RHR_WT03)	16:38		
17	05:49		20:55 (KLZ_WT23)	06:33		19:42 (SAM_WT05)	07:22		19:25 (KLZ_WT19)	08:11			08:04		16:22 (RHR_WT03)	08:44		
	21:53	18	21:13 (KLZ_WT23)	21:05	31	20:13 (SAM_WT05)	19:57	6	19:31 (KLZ_WT19)	18:50			16:56	2	16:24 (RHR_WT03)	16:38		
18	05:50		20:55 (KLZ_WT23)	06:35		19:42 (SAM_WT05)	07:24		19:26 (KLZ_WT19)	08:12			08:06		16:09 (RHR_WT01)	08:44		15:52 (RHR_WT02)
	21:52	18	21:13 (KLZ_WT23)	21:03	32	20:14 (SAM_WT05)	19:55	2	19:28 (KLZ_WT19)	18:48			16:54	8	16:23 (RHR_WT03)	16:39	2	15:54 (RHR_WT02)
19	05:51		20:54 (KLZ_WT23)	06:37		19:40 (SAM_WT05)	07:25			08:14			08:07		16:07 (RHR_WT01)	08:45		15:53 (RHR_WT02)
	21:51	19	21:13 (KLZ_WT23)	21:01	34	20:14 (SAM_WT05)	19:53			18:46			16:53	11	16:18 (RHR_WT01)	16:39	2	15:55 (RHR_WT02)
20	05:52		20:54 (KLZ_WT23)	06:38		19:40 (SAM_WT05)	07:27			08:16			08:09		16:07 (RHR_WT01)	08:46		15:52 (RHR_WT02)
	21:50	19	21:13 (KLZ_WT23)	20:59	34	20:14 (SAM_WT05)	19:50			18:44			16:52	12	16:19 (RHR_WT01)	16:39	4	15:56 (RHR_WT02)
21	05:54		20:55 (KLZ_WT23)	06:40		19:39 (SAM_WT05)	07:28			08:17			08:11		16:07 (RHR_WT01)	08:46		15:53 (RHR_WT02)
	21:49	19	21:14 (KLZ_WT23)	20:56	35	20:14 (SAM_WT05)	19:48			18:42			16:51	13	16:20 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
22	05:55		20:55 (KLZ_WT23)	06:41		19:39 (SAM_WT05)	07:30			08:19		18:07 (MXS_WT01)	08:12		16:06 (RHR_WT01)	08:47		15:53 (RHR_WT02)
	21:48	19	21:14 (KLZ_WT23)	20:54	35	20:14 (SAM_WT05)	19:46			18:40	3	18:10 (MXS_WT01)	16:50	12	16:18 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
23	05:56		20:55 (KLZ_WT23)	06:43		19:39 (SAM_WT05)	07:31			08:21		18:04 (MXS_WT01)	08:14		16:06 (RHR_WT01)	08:47		15:54 (RHR_WT02)
	21:46	19	21:14 (KLZ_WT23)	20:52	34	20:13 (SAM_WT05)	19:43			18:38	6	18:10 (MXS_WT01)	16:49	11	16:17 (RHR_WT01)	16:41	4	15:58 (RHR_WT02)
24	05:58		20:55 (KLZ_WT23)	06:44		19:39 (SAM_WT05)	07:33			08:22		18:03 (MXS_WT01)	08:15		16:06 (RHR_WT01)	08:48		15:54 (RHR_WT02)
	21:45	18	21:13 (KLZ_WT23)	20:50	34	20:13 (SAM_WT05)	19:41			18:36	5	18:08 (MXS_WT01)	16:48	10	16:16 (RHR_WT01)	16:41	3	15:57 (RHR_WT02)
25	05:59		20:56 (KLZ_WT23)	06:46		19:38 (SAM_WT05)	07:35			07:24		17:02 (MXS_WT01)	08:17		16:06 (RHR_WT01)	08:48		15:55 (RHR_WT02)
	21:44	18	21:14 (KLZ_WT23)	20:48	34	20:12 (SAM_WT05)	19:39			17:34	3	17:05 (MXS_WT01)	16:47	9	16:15 (RHR_WT01)	16:42	2	15:57 (RHR_WT02)
26	06:00		20:56 (KLZ_WT23)	06:47		19:39 (SAM_WT05)	07:36			07:26		17:01 (MXS_WT01)	08:18		16:06 (RHR_WT01)	08:49		
	21:42	16	21:12 (KLZ_WT23)	20:46	33	20:12 (SAM_WT05)	19:37			17:32	2	17:03 (MXS_WT01)	16:46	8	16:14 (RHR_WT01)	16:43		
27	06:02		20:56 (KLZ_WT23)	06:49		19:39 (SAM_WT05)	07:38			07:28			08:20		16:07 (RHR_WT01)	08:49		
	21:41	15	21:11 (KLZ_WT23)	20:44	32	20:11 (SAM_WT05)	19:34			17:30			16:45	6	16:13 (RHR_WT01)	16:43		
28	06:03		20:57 (KLZ_WT23)	06:51		19:39 (SAM_WT05)	07:39			07:29			08:21		16:07 (RHR_WT01)	08:49		
	21:39	13	21:10 (KLZ_WT23)	20:42	30	20:09 (SAM_WT05)	19:32			17:28			16:44	5	16:12 (RHR_WT01)	16:44		
29	06:05		20:58 (KLZ_WT23)	06:52		19:40 (SAM_WT05)	07:41			07:31			08:23		16:08 (RHR_WT01)	08:49		
	21:38	10	21:08 (KLZ_WT23)	20:40	29	20:09 (SAM_WT05)	19:30			17:26			16:43	3	16:11 (RHR_WT01)	16:45		
30	06:06		20:59 (KLZ_WT23)	06:54		19:40 (SAM_WT05)	07:43			07:33			08:24		16:09 (RHR_WT01)	08:49		
	21:37	8	21:07 (KLZ_WT23)	20:37	27	20:07 (SAM_WT05)	19:27			17:24			16:43	2	16:11 (RHR_WT01)	16:46		
31	06:07		21:01 (KLZ_WT23)	06:55		19:38 (CBR_WT01)				07:35						08:49		
	21:35	5	21:06 (KLZ_WT23)	20:35	26	20:05 (SAM_WT05)				17:23						16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case	540			644			324			19			146			25		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,55			0,58			0,61			0,68			0,71			0,72		
Total reduction	0,24			0,27			0,26			0,24			0,19			0,16		
Total, real	131			171			83			5			27			4		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21			06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19			21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21			07:28			07:19			06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38			18:28			20:20			21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19			07:26			07:17			06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40			18:30			20:22			21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18			07:24			07:14			06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42			18:32			20:24			21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16			07:21			07:12			06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44			18:33			20:25			21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14			07:19			07:10			06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45			18:35			20:27			21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		20:01 (KLZ_WT15)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	2	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		20:01 (KLZ_WT15)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	4	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		20:02 (KLZ_WT15)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	4	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		20:03 (KLZ_WT15)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	5	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		20:04 (KLZ_WT15)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	3	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57			05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37			21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55			05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38			21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52			05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40			21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50			05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42			21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48			05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43			21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46			05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45			21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44			05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47			21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	302			7			138			56			763			1138		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,54			0,54			0,63			0,64			0,67			0,58		
Total reduction	0,13			0,16			0,23			0,29			0,30			0,25		
Total, real	39			1			32			16			226			286		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		20:01 (KLZ_WT15)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	6	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		20:00 (KLZ_WT15)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	4	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:59 (KLZ_WT15)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	4	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:58 (KLZ_WT15)	07:49	07:42			08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	2	20:00 (KLZ_WT15)	19:19	17:16			16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03			07:51	07:43			08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24			19:16	17:14			16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05			07:52	07:45			08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22			19:14	17:12			16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06			07:54	07:47			08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20			19:12	17:11			16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08			07:56	07:49			08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18			19:10	17:09			16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10			07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15			19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11			07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13			19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44			07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50			19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46			07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48			19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48			07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46			19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49			07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44			19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51			07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42			19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52			07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40			19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54			07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38			19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		20:04 (KLZ_WT15)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	3	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			363			156				312		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,97			0,97			0,97				0,97		
Wind dir. red.		0,62			0,67			0,62				0,54		
Total reduction		0,27			0,31			0,26				0,14		
Total, real		221			111			41				44		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	29	09:28 (RHR_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	34	06:40 (CBR_WT01)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	29	09:27 (RHR_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	34	06:41 (CBR_WT01)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	28	09:26 (RHR_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	34	06:40 (CBR_WT01)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	25	09:25 (RHR_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	36	06:40 (CBR_WT01)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	17	09:22 (RHR_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	36	06:41 (CBR_WT01)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	4	08:53 (MVZ_WT02)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	37	06:41 (CBR_WT01)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	37	06:41 (CBR_WT01)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	37	06:42 (CBR_WT01)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	36	06:41 (CBR_WT01)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	38	06:42 (CBR_WT01)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	37	06:42 (CBR_WT01)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	36	06:41 (CBR_WT01)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	37	06:42 (CBR_WT01)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	35	06:42 (CBR_WT01)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	35	06:42 (CBR_WT01)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	35	06:43 (CBR_WT01)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	34	06:43 (CBR_WT01)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	33	06:43 (CBR_WT01)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	33	06:44 (CBR_WT01)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	33	06:45 (CBR_WT01)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	24	06:37 (CBR_WT01)	22:05	34	06:45 (CBR_WT01)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	26	06:38 (CBR_WT01)	22:05	34	06:44 (CBR_WT01)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	27	09:30 (RHR_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	28	06:38 (CBR_WT01)	22:05	35	06:45 (CBR_WT01)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	27	09:29 (RHR_WT01)				20:12			21:03			21:47	29	06:39 (CBR_WT01)	22:05	35	06:46 (CBR_WT01)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	27	09:29 (RHR_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	31	06:40 (CBR_WT01)	22:04	37	06:46 (CBR_WT01)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	28	09:28 (RHR_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	32	06:40 (CBR_WT01)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		559			284			328			86			595			1047	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,55			0,55			0,61			0,67			0,70	
Total reduction		0,13			0,16			0,20			0,27			0,30			0,30	
Total, real		73			46			67			24			176			317	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	37	06:46 (CBR_WT01)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MXS_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	38	06:46 (CBR_WT01)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MXS_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	37	06:46 (CBR_WT01)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MXS_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42			08:30		09:21 (RHR_WT02)
	22:03	37	06:47 (CBR_WT01)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MXS_WT01)	17:16			16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	36	06:46 (CBR_WT01)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MXS_WT01)	17:14	5	08:23 (MVZ_WT02)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	37	06:47 (CBR_WT01)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MXS_WT01)	17:12	18	08:52 (RHR_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	36	06:47 (CBR_WT01)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MXS_WT01)	17:11	25	08:55 (RHR_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	35	06:47 (CBR_WT01)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	28	08:57 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	29	08:58 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	29	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	33	06:48 (CBR_WT01)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	28	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	32	06:48 (CBR_WT01)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	28	09:00 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	32	06:48 (CBR_WT01)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	26	09:01 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	31	06:48 (CBR_WT01)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	26	09:01 (RHR_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	29	06:48 (CBR_WT01)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	27	06:48 (CBR_WT01)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	25	06:47 (CBR_WT01)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	23	06:47 (CBR_WT01)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		791			222			109			468			526			582	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,64			0,60			0,55			0,54			0,54	
Total reduction		0,30			0,29			0,25			0,20			0,14			0,12	
Total, real		239			65			28			91			74			69	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	53	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	54	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:14 (KLZ_WT19)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	55	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:13 (KLZ_WT19)
	16:51	39	10:21 (ALB_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	56	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:14 (KLZ_WT19)
	16:53	35	10:20 (ALB_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	56	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:40 (CBR_WT01)	05:33		06:14 (KLZ_WT19)
	16:54	33	10:19 (ALB_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	20	07:00 (CBR_WT01)	21:56	55	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:40 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:55	27	10:17 (ALB_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	20	07:00 (CBR_WT01)	21:56	58	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:39 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:56	25	09:51 (RHR_WT03)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	20	06:59 (CBR_WT01)	21:57	58	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:58	25	09:52 (RHR_WT03)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	19	06:59 (CBR_WT01)	21:58	60	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:59	24	09:51 (RHR_WT03)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	18	06:58 (CBR_WT01)	21:59	60	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:41 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	17:00	24	09:51 (RHR_WT03)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	17	06:58 (CBR_WT01)	22:00	61	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	26	09:51 (RHR_WT03)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	16	06:56 (CBR_WT01)	22:00	60	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	26	09:52 (RHR_WT03)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	15	06:56 (CBR_WT01)	22:01	63	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	27	09:52 (RHR_WT03)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	12	06:53 (CBR_WT01)	22:01	62	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	28	09:51 (RHR_WT03)	18:00			18:49			20:40			21:28	8	06:51 (CBR_WT01)	22:02	61	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	28	09:51 (RHR_WT03)	18:02			18:50			20:42			21:30	5	06:26 (SAM_WT11)	22:03	63	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	27	09:50 (RHR_WT03)	18:04			18:52			20:43			21:31	7	06:29 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	26	09:49 (RHR_WT03)	18:05			18:54			20:45			21:33	16	06:34 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	25	09:48 (RHR_WT03)	18:07			18:55			20:47			21:34	20	06:37 (KLZ_WT19)	22:04	63	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	21	09:46 (RHR_WT03)	18:09			18:57			20:48			21:35	18	06:38 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	16	09:21 (RHR_WT02)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	21	06:40 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	16	09:21 (RHR_WT02)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	26	21:07 (KLZ_WT15)	22:05	64	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:16 (KLZ_WT19)	05:30		06:00 (SAM_WT07)
	17:19	16	09:22 (RHR_WT02)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	32	21:09 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	14	09:20 (RHR_WT02)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	35	21:10 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	37	21:11 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	40	21:12 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	44	21:13 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	45	21:14 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:15 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	47	21:16 (KLZ_WT15)	22:05	62	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:14 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	49	21:17 (KLZ_WT15)	22:04	61	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:14 (KLZ_WT19)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	51	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		685			250			158			316			747			1815	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,55			0,57			0,62			0,67			0,66	
Total reduction		0,13			0,16			0,21			0,28			0,30			0,28	
Total, real		89			41			33			89			224			515	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:52 (CBR_WT01)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	61	21:27 (KLZ_WT15)	21:34	15	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	24	09:33 (RHR_WT03)
2	05:35		06:04 (SAM_WT07)	06:11		06:51 (CBR_WT01)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	61	21:27 (KLZ_WT15)	21:32	17	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	24	09:34 (RHR_WT03)
3	05:35		06:05 (SAM_WT07)	06:12		06:50 (CBR_WT01)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	59	21:27 (KLZ_WT15)	21:30	19	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	25	09:35 (RHR_WT03)
4	05:36		06:06 (SAM_WT07)	06:14		06:49 (CBR_WT01)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	59	21:28 (KLZ_WT15)	21:29	20	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
5	05:37		06:07 (SAM_WT07)	06:15		06:50 (CBR_WT01)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	58	21:28 (KLZ_WT15)	21:27	19	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
6	05:38		06:20 (KLZ_WT19)	06:17		06:49 (CBR_WT01)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	56	21:28 (KLZ_WT15)	21:25	20	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	32	10:05 (ALB_WT01)
7	05:38		06:20 (KLZ_WT19)	06:18		06:50 (CBR_WT01)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	57	21:28 (KLZ_WT15)	21:24	20	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	35	10:07 (ALB_WT01)
8	05:39		06:21 (KLZ_WT19)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	55	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	38	10:09 (ALB_WT01)
9	05:40		06:21 (KLZ_WT19)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:21 (KLZ_WT19)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:22 (KLZ_WT19)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	52	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:22 (KLZ_WT19)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	52	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:23 (KLZ_WT19)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	50	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:23 (KLZ_WT19)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	48	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:23 (KLZ_WT19)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	47	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:24 (KLZ_WT19)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	43	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:24 (KLZ_WT19)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	42	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	38	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	14	08:54 (RHR_WT02)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	37	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	16	08:56 (RHR_WT02)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	33	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	16	08:56 (RHR_WT02)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	29	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	16	08:57 (RHR_WT02)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	24	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	21	09:22 (RHR_WT03)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	20	06:49 (KLZ_WT19)	20:53			19:44			18:38			16:49	25	09:24 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	19	06:48 (KLZ_WT19)	20:50			19:41			18:36			16:48	26	09:26 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	18	06:46 (KLZ_WT19)	20:48			19:39			17:34			16:47	27	09:28 (RHR_WT03)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	14	06:43 (KLZ_WT19)	20:46			19:37			17:32			16:46	27	09:29 (RHR_WT03)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	6	06:36 (SAM_WT11)	20:44			19:34			17:30			16:45	27	09:30 (RHR_WT03)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	5	06:37 (SAM_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	11	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	15	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	26	09:33 (RHR_WT03)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	15	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1194			305			263			245			462			1235	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,66			0,67			0,61			0,56			0,54			0,54	
Total reduction		0,29			0,30			0,26			0,20			0,14			0,12	
Total, real		346			92			68			49			65			147	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (ATS_WT01)	08:24			07:32		07:59 (ALB_WT01)	07:23			06:20		06:48 (KLZ_WT16)	05:37		06:04 (KLZ_WT23)
	16:48	8	09:40 (ATS_WT01)	17:35			18:25	5	08:04 (ALB_WT01)	20:17			21:06	12	07:00 (KLZ_WT16)	21:51	38	07:07 (KLZ_WT16)
2	08:50		09:33 (ATS_WT01)	08:23			07:30			07:21			06:18		06:45 (KLZ_WT16)	05:36		06:06 (KLZ_WT23)
	16:49	7	09:40 (ATS_WT01)	17:37			18:27			20:19			21:08	18	07:03 (KLZ_WT16)	21:52	36	07:07 (KLZ_WT16)
3	08:49		09:35 (ATS_WT01)	08:21			07:28			07:19			06:17		06:44 (KLZ_WT16)	05:35		06:06 (KLZ_WT23)
	16:50	4	09:39 (ATS_WT01)	17:38			18:28			20:20			21:10	21	07:05 (KLZ_WT16)	21:53	34	07:06 (KLZ_WT16)
4	08:49			08:19			07:26			07:17			06:15		06:42 (KLZ_WT16)	05:34		06:07 (KLZ_WT23)
	16:52			17:40			18:30			20:22			21:11	24	07:06 (KLZ_WT16)	21:54	32	07:07 (KLZ_WT16)
5	08:49			08:18			07:24			07:14			06:13		06:40 (KLZ_WT16)	05:34		06:07 (KLZ_WT23)
	16:53			17:42			18:32			20:24			21:13	27	07:07 (KLZ_WT16)	21:55	30	07:06 (KLZ_WT16)
6	08:49			08:16			07:22		07:44 (RHR_WT01)	07:12			06:11		06:40 (KLZ_WT16)	05:33		06:09 (KLZ_WT23)
	16:54			17:44			18:34	1	07:45 (RHR_WT01)	20:25			21:14	28	07:08 (KLZ_WT16)	21:56	27	07:06 (KLZ_WT16)
7	08:48			08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		06:34 (SAM_WT07)	05:33		06:09 (KLZ_WT23)
	16:55			17:46			18:35	2	07:44 (RHR_WT01)	20:27			21:16	32	07:09 (KLZ_WT16)	21:56	25	07:05 (KLZ_WT16)
8	08:48			08:13			07:17		07:40 (RHR_WT01)	07:08			06:08		06:32 (SAM_WT07)	05:32		06:45 (KLZ_WT16)
	16:56			17:47			18:37	2	07:42 (RHR_WT01)	20:29			21:18	33	07:09 (KLZ_WT16)	21:57	20	07:05 (KLZ_WT16)
9	08:48			08:11			07:15			07:06			06:06		06:37 (KLZ_WT16)	05:32		06:46 (KLZ_WT16)
	16:58			17:49			18:39			20:30			21:19	33	07:10 (KLZ_WT16)	21:58	18	07:04 (KLZ_WT16)
10	08:47			08:09			07:13			07:03			06:04		06:36 (KLZ_WT16)	05:31		06:47 (KLZ_WT16)
	16:59			17:51			18:40			20:32			21:21	34	07:10 (KLZ_WT16)	21:59	17	07:04 (KLZ_WT16)
11	08:46			08:08			07:11			07:01			06:03		06:36 (KLZ_WT16)	05:31		06:48 (KLZ_WT16)
	17:00			17:53			18:42			20:34			21:22	35	07:11 (KLZ_WT16)	22:00	16	07:04 (KLZ_WT16)
12	08:46			08:06			07:08		07:31 (MVN_WT01)	06:59			06:01		06:35 (KLZ_WT16)	05:30		06:49 (KLZ_WT16)
	17:02			17:55			18:44	1	07:32 (MVN_WT01)	20:35			21:24	36	07:11 (KLZ_WT16)	22:00	14	07:03 (KLZ_WT16)
13	08:45			08:04			07:06			06:57			06:00		06:35 (KLZ_WT16)	05:30		06:49 (KLZ_WT16)
	17:03			17:56			18:45			20:37			21:25	36	07:11 (KLZ_WT16)	22:01	13	07:02 (KLZ_WT16)
14	08:45			08:02			07:04			06:55			05:58		06:34 (KLZ_WT16)	05:30		06:50 (KLZ_WT16)
	17:05			17:58			18:47			20:39			21:27	37	07:11 (KLZ_WT16)	22:02	12	07:02 (KLZ_WT16)
15	08:44			08:00			07:02			06:53			05:57		06:34 (KLZ_WT16)	05:30		06:50 (KLZ_WT16)
	17:06			18:00			18:49			20:40			21:28	37	07:11 (KLZ_WT16)	22:02	12	07:02 (KLZ_WT16)
16	08:43			07:58			06:59			06:50		07:13 (KLZ_WT08)	05:55		06:35 (KLZ_WT16)	05:30		06:51 (KLZ_WT16)
	17:08			18:02			18:51			20:42	2	07:15 (KLZ_WT08)	21:30	37	07:12 (KLZ_WT16)	22:03	10	07:01 (KLZ_WT16)
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT08)	05:54		06:34 (KLZ_WT16)	05:30		06:52 (KLZ_WT16)
	17:09			18:04			18:52			20:43	4	07:15 (KLZ_WT08)	21:31	37	07:11 (KLZ_WT16)	22:03	9	07:01 (KLZ_WT16)
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT08)	05:52		06:34 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:11			18:05			18:54			20:45	5	07:14 (KLZ_WT08)	21:33	37	07:11 (KLZ_WT16)	22:03	8	07:01 (KLZ_WT16)
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT19)	05:51		06:35 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:13			18:07			18:56			20:47	6	07:13 (KLZ_WT08)	21:34	36	07:11 (KLZ_WT16)	22:04	7	07:00 (KLZ_WT16)
20	08:39			07:51			06:50			06:42		07:05 (KLZ_WT19)	05:50		06:35 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:14			18:09			18:57			20:48	6	07:11 (KLZ_WT08)	21:35	37	07:12 (KLZ_WT16)	22:04	7	07:00 (KLZ_WT16)
21	08:38			07:49			06:48			06:40		07:03 (KLZ_WT19)	05:48		06:35 (KLZ_WT16)	05:30		06:54 (KLZ_WT16)
	17:16			18:11			18:59			20:50	6	07:09 (KLZ_WT19)	21:37	37	07:12 (KLZ_WT16)	22:04	7	07:01 (KLZ_WT16)
22	08:37			07:47			06:46			06:38		07:01 (KLZ_WT19)	05:47		06:35 (KLZ_WT16)	05:30		06:54 (KLZ_WT16)
	17:17			18:13			19:01			20:52	8	07:09 (KLZ_WT19)	21:38	35	07:10 (KLZ_WT16)	22:05	7	07:01 (KLZ_WT16)
23	08:36			07:45			06:44			06:36		06:59 (KLZ_WT19)	05:46		06:12 (KLZ_WT23)	05:30		06:54 (KLZ_WT16)
	17:19			18:14			19:02			20:53	9	07:08 (KLZ_WT19)	21:40	37	07:10 (KLZ_WT16)	22:05	7	07:01 (KLZ_WT16)
24	08:35			07:43		08:06 (ALB_WT01)	06:41			06:34		06:57 (KLZ_WT19)	05:45		06:11 (KLZ_WT23)	05:31		06:54 (KLZ_WT16)
	17:21			18:16	2	08:08 (ALB_WT01)	19:04			20:55	10	07:07 (KLZ_WT19)	21:41	38	07:10 (KLZ_WT16)	22:05	8	07:02 (KLZ_WT16)
25	08:34			07:41		08:04 (ALB_WT01)	06:39			06:32		06:55 (KLZ_WT19)	05:43		06:10 (KLZ_WT23)	05:31		06:54 (KLZ_WT16)
	17:23			18:18	4	08:08 (ALB_WT01)	19:06			20:57	11	07:06 (KLZ_WT19)	21:42	39	07:10 (KLZ_WT16)	22:05	9	07:03 (KLZ_WT16)
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30		06:56 (KLZ_WT19)	05:42		06:09 (KLZ_WT23)	05:31		06:54 (KLZ_WT16)
	17:24			18:20	6	08:08 (ALB_WT01)	19:07			20:58	9	07:05 (KLZ_WT19)	21:43	39	07:09 (KLZ_WT16)	22:05	9	07:03 (KLZ_WT16)
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28		06:58 (KLZ_WT19)	05:41		06:08 (KLZ_WT23)	05:32		06:54 (KLZ_WT16)
	17:26			18:21	8	08:08 (ALB_WT01)	19:09			21:00	4	07:02 (KLZ_WT19)	21:45	40	07:09 (KLZ_WT16)	22:05	10	07:04 (KLZ_WT16)
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26			05:40		06:08 (KLZ_WT23)	05:32		06:53 (KLZ_WT16)
	17:28			18:23	9	08:06 (ALB_WT01)	19:11			21:01			21:46	40	07:10 (KLZ_WT16)	22:05	12	07:05 (KLZ_WT16)
29	08:28						07:30			06:24			05:39		06:07 (KLZ_WT23)	05:33		06:53 (KLZ_WT16)
	17:29						20:12			21:03			21:47	39	07:09 (KLZ_WT16)	22:05	13	07:06 (KLZ_WT16)
30	08:27						07:28			06:22			05:38		06:06 (KLZ_WT23)	05:33		06:52 (KLZ_WT16)
	17:31						20:14			21:05			21:48	39	07:08 (KLZ_WT16)	22:04	14	07:06 (KLZ_WT16)
31	08:26						07:26						05:37		06:05 (KLZ_WT23)			
	17:33						20:15						21:49	40	07:08 (KLZ_WT16)			
Potential sun hours	262			279			367			414			482			494		
Total, worst case		19			29			11			80			1050			481	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,55			0,56			0,65			0,68			0,68	
Total reduction		0,13			0,16			0,21			0,29			0,30			0,29	
Total, real		2			5			2			23			317			141	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September	October			November	December		
1	05:34		06:52 (KLZ_WT16)	06:09		06:45 (KLZ_WT16)	06:57	07:45			07:37	08:26		
	22:04	15	07:07 (KLZ_WT16)	21:34	36	07:21 (KLZ_WT16)	20:33	19:26			17:21	16:42		
2	05:35		06:51 (KLZ_WT16)	06:11		06:46 (KLZ_WT16)	06:59	07:46		08:11 (MVN_WT01)	07:38	08:27		
	22:04	17	07:08 (KLZ_WT16)	21:32	35	07:21 (KLZ_WT16)	20:31	19:23	1	08:12 (MVN_WT01)	17:19	16:42		
3	05:35		06:51 (KLZ_WT16)	06:12		06:46 (KLZ_WT16)	07:00	07:48			07:40	08:29		
	22:04	18	07:09 (KLZ_WT16)	21:30	34	07:20 (KLZ_WT16)	20:29	19:21			17:18	16:41		
4	05:36		06:51 (KLZ_WT16)	06:14		06:47 (KLZ_WT16)	07:02	07:49			07:42	08:30		
	22:03	19	07:10 (KLZ_WT16)	21:29	33	07:20 (KLZ_WT16)	20:27	19:19			17:16	16:41		
5	05:37		06:17 (KLZ_WT23)	06:15		06:43 (SAM_WT07)	07:04	07:51			07:44	08:31		
	22:03	21	07:11 (KLZ_WT16)	21:27	32	07:19 (KLZ_WT16)	20:24	19:17			17:14	16:40		
6	05:38		06:14 (KLZ_WT23)	06:17		06:44 (SAM_WT07)	07:05	07:53		08:17 (RHR_WT01)	07:45	08:33		
	22:02	26	07:11 (KLZ_WT16)	21:25	31	07:18 (KLZ_WT16)	20:22	19:14	2	08:19 (RHR_WT01)	17:12	16:40		
7	05:39		06:14 (KLZ_WT23)	06:18		06:49 (KLZ_WT16)	07:07	07:54		08:19 (RHR_WT01)	07:47	08:34		
	22:02	29	07:12 (KLZ_WT16)	21:24	29	07:18 (KLZ_WT16)	20:20	19:12	2	08:21 (RHR_WT01)	17:11	16:39		
8	05:39		06:14 (KLZ_WT23)	06:20		06:50 (KLZ_WT16)	07:08	07:56			07:49	08:35		
	22:01	31	07:13 (KLZ_WT16)	21:22	26	07:16 (KLZ_WT16)	20:18	19:10			17:09	16:39		
9	05:40		06:13 (KLZ_WT23)	06:21		06:52 (KLZ_WT16)	07:10	07:58			07:51	08:36		09:23 (ATS_WT01)
	22:00	34	07:14 (KLZ_WT16)	21:20	23	07:15 (KLZ_WT16)	20:16	19:08			17:08	16:39	4	09:27 (ATS_WT01)
10	05:41		06:13 (KLZ_WT23)	06:23		06:53 (KLZ_WT16)	07:11	07:59			07:52	08:37		09:22 (ATS_WT01)
	22:00	35	07:14 (KLZ_WT16)	21:18	20	07:13 (KLZ_WT16)	20:13	19:06			17:06	16:38	7	09:29 (ATS_WT01)
11	05:42		06:13 (KLZ_WT23)	06:24		06:55 (KLZ_WT16)	07:13	08:01			07:54	08:38		09:22 (ATS_WT01)
	21:59	38	07:15 (KLZ_WT16)	21:16	17	07:12 (KLZ_WT16)	20:11	19:03			17:04	16:38	8	09:30 (ATS_WT01)
12	05:43		06:13 (KLZ_WT23)	06:26		06:58 (KLZ_WT16)	07:14	08:03			07:56	08:39		09:22 (ATS_WT01)
	21:58	39	07:16 (KLZ_WT16)	21:14	10	07:08 (KLZ_WT16)	20:09	19:01			17:03	16:38	9	09:31 (ATS_WT01)
13	05:44		06:14 (KLZ_WT23)	06:27			07:16	08:04		08:32 (ALB_WT01)	07:57	08:40		09:22 (ATS_WT01)
	21:57	39	07:17 (KLZ_WT16)	21:13			20:06	18:59	6	08:38 (ALB_WT01)	17:02	16:38	10	09:32 (ATS_WT01)
14	05:46		06:15 (KLZ_WT23)	06:29			07:18	08:06		08:31 (ALB_WT01)	07:59	08:41		09:22 (ATS_WT01)
	21:56	40	07:17 (KLZ_WT16)	21:11			20:04	18:57	8	08:39 (ALB_WT01)	17:00	16:38	10	09:32 (ATS_WT01)
15	05:47		06:16 (KLZ_WT23)	06:31			07:19	08:07		08:33 (ALB_WT01)	08:01	08:42		09:22 (ATS_WT01)
	21:56	40	07:18 (KLZ_WT16)	21:09			20:02	18:55	7	08:40 (ALB_WT01)	16:59	16:38	11	09:33 (ATS_WT01)
16	05:48		06:17 (KLZ_WT23)	06:32		07:05 (KLZ_WT19)	07:21	08:09		08:35 (ALB_WT01)	08:03	08:43		09:23 (ATS_WT01)
	21:55	39	07:18 (KLZ_WT16)	21:07	5	07:10 (KLZ_WT19)	20:00	18:53	6	08:41 (ALB_WT01)	16:57	16:38	11	09:34 (ATS_WT01)
17	05:49		06:18 (KLZ_WT23)	06:34		07:02 (KLZ_WT19)	07:22	08:11		08:36 (ALB_WT01)	08:04	08:44		09:23 (ATS_WT01)
	21:54	40	07:19 (KLZ_WT16)	21:05	10	07:12 (KLZ_WT19)	19:57	18:51	3	08:39 (ALB_WT01)	16:56	16:39	12	09:35 (ATS_WT01)
18	05:50		06:19 (KLZ_WT23)	06:35		07:02 (KLZ_WT19)	07:24	08:13		08:38 (ALB_WT01)	08:06	08:45		09:23 (ATS_WT01)
	21:53	39	07:19 (KLZ_WT16)	21:03	11	07:13 (KLZ_WT19)	19:55	18:48	1	08:39 (ALB_WT01)	16:55	16:39	12	09:35 (ATS_WT01)
19	05:51		06:21 (KLZ_WT23)	06:37		07:03 (KLZ_WT19)	07:25	08:14			08:08	08:45		09:24 (ATS_WT01)
	21:51	39	07:20 (KLZ_WT16)	21:01	10	07:13 (KLZ_WT19)	19:53	18:46			16:54	16:39	12	09:36 (ATS_WT01)
20	05:53		06:22 (KLZ_WT23)	06:38		07:05 (KLZ_WT19)	07:27	08:16			08:09	08:46		09:24 (ATS_WT01)
	21:50	38	07:21 (KLZ_WT16)	20:59	9	07:14 (KLZ_WT19)	19:51	18:44			16:52	16:40	13	09:37 (ATS_WT01)
21	05:54		06:23 (KLZ_WT23)	06:40		07:06 (KLZ_WT19)	07:29	08:18			08:11	08:47		09:24 (ATS_WT01)
	21:49	36	07:21 (KLZ_WT16)	20:57	7	07:13 (KLZ_WT19)	19:48	18:42			16:51	16:40	13	09:37 (ATS_WT01)
22	05:55		06:45 (KLZ_WT16)	06:42		07:08 (KLZ_WT19)	07:30	08:19			08:12	08:47		09:25 (ATS_WT01)
	21:48	36	07:21 (KLZ_WT16)	20:55	5	07:13 (KLZ_WT19)	19:46	18:40			16:50	16:40	13	09:38 (ATS_WT01)
23	05:57		06:45 (KLZ_WT16)	06:43		07:09 (KLZ_WT19)	07:32	08:21			08:14	08:48		09:25 (ATS_WT01)
	21:47	36	07:21 (KLZ_WT16)	20:53	6	07:15 (KLZ_WT08)	19:44	18:38			16:49	16:41	13	09:38 (ATS_WT01)
24	05:58		06:45 (KLZ_WT16)	06:45		07:11 (KLZ_WT08)	07:33	08:23			08:16	08:48		09:26 (ATS_WT01)
	21:45	37	07:22 (KLZ_WT16)	20:51	6	07:17 (KLZ_WT08)	19:41	18:36			16:48	16:42	12	09:38 (ATS_WT01)
25	05:59		06:45 (KLZ_WT16)	06:46		07:12 (KLZ_WT08)	07:35	07:24			08:17	08:48		09:27 (ATS_WT01)
	21:44	37	07:22 (KLZ_WT16)	20:48	5	07:17 (KLZ_WT08)	19:39	17:34			16:47	16:42	12	09:39 (ATS_WT01)
26	06:01		06:45 (KLZ_WT16)	06:48		07:14 (KLZ_WT08)	07:37	07:26			08:19	08:49		09:27 (ATS_WT01)
	21:43	37	07:22 (KLZ_WT16)	20:46	4	07:18 (KLZ_WT08)	19:37	17:32			16:46	16:43	12	09:39 (ATS_WT01)
27	06:02		06:45 (KLZ_WT16)	06:49		07:15 (KLZ_WT08)	07:38	07:28			08:20	08:49		09:28 (ATS_WT01)
	21:41	38	07:23 (KLZ_WT16)	20:44	2	07:17 (KLZ_WT08)	19:35	17:30			16:45	16:44	11	09:39 (ATS_WT01)
28	06:03		06:45 (KLZ_WT16)	06:51			07:40	07:30			08:22	08:49		09:28 (ATS_WT01)
	21:40	37	07:22 (KLZ_WT16)	20:42			19:32	17:29			16:44	16:44	11	09:39 (ATS_WT01)
29	06:05		06:45 (KLZ_WT16)	06:53			07:41	07:31			08:23	08:49		09:29 (ATS_WT01)
	21:38	37	07:22 (KLZ_WT16)	20:40			19:30	17:27			16:44	16:45	10	09:39 (ATS_WT01)
30	06:06		06:46 (KLZ_WT16)	06:54			07:43	07:33			08:25	08:50		09:29 (ATS_WT01)
	21:37	36	07:22 (KLZ_WT16)	20:38			19:28	17:25			16:43	16:46	11	09:40 (ATS_WT01)
31	06:08		06:46 (KLZ_WT16)	06:56				07:35				08:50		09:30 (ATS_WT01)
	21:35	36	07:22 (KLZ_WT16)	20:36				17:23				16:47	10	09:40 (ATS_WT01)
Potential sun hours	498			451			380	333			269	248		
Total, worst case		1039			406				36				247	
Sun reduction		0,45			0,47				0,36				0,23	
Oper. time red.		0,97			0,97				0,97				0,97	
Wind dir. red.		0,68			0,67				0,55				0,53	
Total reduction		0,30			0,31				0,20				0,12	
Total, real		308			124				7				29	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (KLZ_WT19)	06:20		06:44 (KLZ_WT23)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	11	07:57 (KLZ_WT19)	21:06	47	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:43 (KLZ_WT19)	06:18		06:42 (KLZ_WT23)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	13	07:56 (KLZ_WT19)	21:08	49	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19		07:43 (KLZ_WT19)	06:17		06:41 (KLZ_WT23)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20	12	07:55 (KLZ_WT19)	21:10	50	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17		07:45 (KLZ_WT19)	06:15		06:39 (KLZ_WT23)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22	8	07:53 (KLZ_WT19)	21:11	51	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14			06:13		06:37 (KLZ_WT23)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24			21:13	51	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12			06:11		06:38 (KLZ_WT23)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25			21:14	50	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10			06:09		06:38 (KLZ_WT23)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27			21:16	48	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08			06:08		06:39 (KLZ_WT23)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29			21:18	43	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06			06:06		06:42 (KLZ_WT23)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30			21:19	38	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03			06:04		07:09 (KLZ_WT15)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32			21:21	33	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46			06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01			20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44			06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02			20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41			06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04			20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39			06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06			20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37			06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07			20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35			06:28		07:07 (KLZ_WT15)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09			21:00	40	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32		06:55 (KLZ_WT19)	06:26		07:08 (KLZ_WT15)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11	2	06:57 (KLZ_WT19)	21:01	40	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (KLZ_WT19)	06:24		06:48 (KLZ_WT23)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	5	07:57 (KLZ_WT19)	21:03	42	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (KLZ_WT19)	06:22		06:46 (KLZ_WT23)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	7	07:57 (KLZ_WT19)	21:05	44	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (KLZ_WT19)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	9	07:57 (KLZ_WT19)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case	156			655			49			533			637			20		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,55			0,55			0,61			0,64			0,65			0,71		
Total reduction	0,13			0,16			0,22			0,29			0,29			0,31		
Total, real	21			105			11			155			184			6		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December
1	05:34		06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1	06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35		06:04 (KLZ_WT17)	06:11		07:20 (KLZ_WT15)	06:59			07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1	06:05 (KLZ_WT17)	21:32	32	07:52 (KLZ_WT15)	20:31			19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35			06:12		07:19 (KLZ_WT15)	07:00			07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04			21:30	33	07:52 (KLZ_WT15)	20:29			19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36			06:14		06:51 (KLZ_WT23)	07:02			07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03			21:29	41	07:54 (KLZ_WT15)	20:27			19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37			06:15		06:49 (KLZ_WT23)	07:03			07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03			21:27	45	07:54 (KLZ_WT15)	20:24			19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38			06:17		06:48 (KLZ_WT23)	07:05			07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02			21:25	48	07:54 (KLZ_WT15)	20:22			19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38			06:18		06:47 (KLZ_WT23)	07:07			07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02			21:24	51	07:55 (KLZ_WT15)	20:20			19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39			06:20		06:47 (KLZ_WT23)	07:08		07:39 (KLZ_WT19)	07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01			21:22	52	07:55 (KLZ_WT15)	20:18	8	07:47 (KLZ_WT19)	19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40			06:21		06:49 (KLZ_WT23)	07:10		07:38 (KLZ_WT19)	07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00			21:20	51	07:56 (KLZ_WT15)	20:16	11	07:49 (KLZ_WT19)	19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41			06:23		06:50 (KLZ_WT23)	07:11		07:36 (KLZ_WT19)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00			21:18	50	07:55 (KLZ_WT15)	20:13	13	07:49 (KLZ_WT19)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42			06:24		06:52 (KLZ_WT23)	07:13		07:38 (KLZ_WT19)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59			21:16	48	07:56 (KLZ_WT15)	20:11	11	07:49 (KLZ_WT19)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43			06:26		06:53 (KLZ_WT23)	07:14		07:39 (KLZ_WT19)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58			21:15	46	07:55 (KLZ_WT15)	20:09	10	07:49 (KLZ_WT19)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44			06:27		06:54 (KLZ_WT23)	07:16		07:41 (KLZ_WT19)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57			21:13	44	07:55 (KLZ_WT15)	20:06	8	07:49 (KLZ_WT19)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45			06:29		07:15 (KLZ_WT15)	07:18		07:42 (KLZ_WT19)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57			21:11	40	07:55 (KLZ_WT15)	20:04	5	07:47 (KLZ_WT19)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47			06:31		07:14 (KLZ_WT15)	07:19		07:44 (KLZ_WT19)	08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56			21:09	40	07:54 (KLZ_WT15)	20:02	2	07:46 (KLZ_WT19)	18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48			06:32		07:15 (KLZ_WT15)	07:21			08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55			21:07	39	07:54 (KLZ_WT15)	20:00			18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49			06:34		07:15 (KLZ_WT15)	07:22			08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54			21:05	38	07:53 (KLZ_WT15)	19:57			18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50			06:35		07:16 (KLZ_WT15)	07:24			08:13			08:06			08:45
	21:53			21:03	37	07:53 (KLZ_WT15)	19:55			18:48			16:55			16:39
19	05:51			06:37		07:16 (KLZ_WT15)	07:25			08:14			08:08			08:45
	21:51			21:01	36	07:52 (KLZ_WT15)	19:53			18:46			16:54			16:39
20	05:53			06:38		07:17 (KLZ_WT15)	07:27			08:16			08:09			08:46
	21:50			20:59	35	07:52 (KLZ_WT15)	19:51			18:44			16:52			16:40
21	05:54			06:40		07:17 (KLZ_WT15)	07:29			08:18			08:11			08:47
	21:49			20:57	33	07:50 (KLZ_WT15)	19:48			18:42			16:51			16:40
22	05:55			06:41		07:08 (SAM_WT07)	07:30			08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48			20:55	34	07:49 (KLZ_WT15)	19:46			18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57			06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47			20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58			06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45			20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59		07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3	07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01		07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12	07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02		07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16	07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03		07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20	07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05		07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23	07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06		07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26	07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08		07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28	07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498			451			380			333			269			248
Total, worst case		130			1006			93			282			538		
Sun reduction		0,45			0,47			0,43			0,36			0,27		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,64			0,65			0,62			0,55			0,55		
Total reduction		0,28			0,29			0,26			0,19			0,14		
Total, real		37			296			24			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (KLZ_WT19)	06:20			05:37		
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	16	08:02 (KLZ_WT19)	21:06			21:51		
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (KLZ_WT19)	06:18			05:36		
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	18	08:01 (KLZ_WT19)	21:08			21:52		
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:43 (KLZ_WT19)	06:17			05:35		
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	18	08:01 (KLZ_WT19)	21:10			21:53		
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:43 (KLZ_WT19)	06:15			05:34		
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	17	08:00 (KLZ_WT19)	21:11			21:54		
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14		07:44 (KLZ_WT19)	06:13			05:34		
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24	15	07:59 (KLZ_WT19)	21:13			21:55		
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12		07:44 (KLZ_WT19)	06:11		06:36 (SAM_WT06)	05:33		
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25	12	07:56 (KLZ_WT19)	21:14	2	06:38 (SAM_WT06)	21:56		
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10		07:46 (KLZ_WT19)	06:09		06:34 (SAM_WT06)	05:32		
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27	8	07:54 (KLZ_WT19)	21:16	3	06:37 (SAM_WT06)	21:56		
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08			06:08		06:32 (KLZ_WT23)	05:32		
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29			21:17	4	06:36 (SAM_WT06)	21:57		
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06			06:06		06:31 (KLZ_WT23)	05:31		
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30			21:19	6	06:37 (KLZ_WT23)	21:58		
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03			06:04		06:29 (KLZ_WT23)	05:31		
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32			21:21	9	06:38 (KLZ_WT23)	21:59		
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01			06:03		06:28 (KLZ_WT23)	05:31		
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34			21:22	11	06:39 (KLZ_WT23)	22:00		
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59			06:01		06:26 (KLZ_WT23)	05:30		
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35			21:24	13	06:39 (KLZ_WT23)	22:00		
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57			06:00		06:25 (KLZ_WT23)	05:30		
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37			21:25	15	06:40 (KLZ_WT23)	22:01		
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55			05:58		06:23 (KLZ_WT23)	05:30		
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39			21:27	17	06:40 (KLZ_WT23)	22:02		
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53			05:57		06:23 (KLZ_WT23)	05:30		
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40			21:28	17	06:40 (KLZ_WT23)	22:02		
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50			05:55		06:23 (KLZ_WT23)	05:30		
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42			21:30	17	06:40 (KLZ_WT23)	22:03		
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48			05:54		06:23 (KLZ_WT23)	05:30		
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43			21:31	16	06:39 (KLZ_WT23)	22:03		
18	08:41		09:09 (RHR_WT03)	07:55			06:55			06:46			05:52		06:24 (KLZ_WT23)	05:30		
	17:11	13	09:23 (ALB_WT01)	18:05			18:54			20:45			21:33	15	06:39 (KLZ_WT23)	22:03		
19	08:40		09:08 (RHR_WT03)	07:53			06:53			06:44			05:51		06:24 (KLZ_WT23)	05:30		
	17:13	13	09:23 (ALB_WT01)	18:07			18:56			20:47			21:34	15	06:39 (KLZ_WT23)	22:04		
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:25 (KLZ_WT23)	05:30		
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57			20:48			21:35	14	06:39 (KLZ_WT23)	22:04		
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:26 (KLZ_WT23)	05:30		
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59			20:50			21:37	12	06:38 (KLZ_WT23)	22:04		
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:26 (KLZ_WT23)	05:30		
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	1	07:09 (KLZ_WT10)	20:52	2	07:03 (SAM_WT07)	21:38	11	06:37 (KLZ_WT23)	22:05		
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:27 (KLZ_WT23)	05:30		
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	3	07:09 (KLZ_WT10)	20:53	4	07:03 (SAM_WT07)	21:40	9	06:36 (KLZ_WT23)	22:05		
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44		06:29 (KLZ_WT23)	05:31		
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	5	07:09 (KLZ_WT10)	20:55	5	07:02 (SAM_WT07)	21:41	5	06:34 (KLZ_WT23)	22:05		
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43			05:31		
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	6	07:07 (KLZ_WT10)	20:57	6	07:01 (SAM_WT07)	21:42			22:05		
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42			05:31		
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	2	07:04 (KLZ_WT10)	20:58	7	07:00 (SAM_WT07)	21:43			22:05		
27	08:31		08:57 (RHR_WT02)	07:36			06:35			06:28			05:41			05:32		
	17:26	3	09:00 (RHR_WT02)	18:21			19:09			21:00			21:45			22:05		
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT19)	06:26			05:40			05:32		
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	5	07:00 (KLZ_WT19)	21:01			21:46			22:05		
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (KLZ_WT19)	06:24			05:39			05:33		
	17:29	4	08:58 (RHR_WT02)				20:12	8	08:00 (KLZ_WT19)	21:03			21:47			22:05		
30	08:27						07:28		07:50 (KLZ_WT19)	06:22			05:38			05:33		
	17:31						20:14	11	08:01 (KLZ_WT19)	21:05			21:48			22:04		
31	08:26						07:26		07:48 (KLZ_WT19)				05:37					
	17:33						20:15	14	08:02 (KLZ_WT19)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		779			33			157			128			211				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,97			0,97			0,97			0,97			0,97				
Wind dir. red.		0,65			0,56			0,58			0,63			0,69				
Total reduction		0,16			0,16			0,22			0,29			0,31				
Total, real		122			5			34			37			65				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (KLZ_WT23)	06:57			07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04			21:34	12	06:49 (KLZ_WT23)	20:33			19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35			06:11		06:39 (KLZ_WT23)	06:59			07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04			21:32	10	06:49 (KLZ_WT23)	20:31			19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35			06:12		06:40 (KLZ_WT23)	07:00			07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04			21:30	8	06:48 (KLZ_WT23)	20:29			19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36			06:14		06:41 (KLZ_WT23)	07:02			07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03			21:29	5	06:46 (KLZ_WT23)	20:27			19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37			06:15		06:43 (KLZ_WT23)	07:03		07:43 (KLZ_WT19)	07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03			21:27	4	06:47 (SAM_WT06)	20:24	8	07:51 (KLZ_WT19)	19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38			06:17		06:44 (SAM_WT06)	07:05		07:40 (KLZ_WT19)	07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02			21:25	3	06:47 (SAM_WT06)	20:22	12	07:52 (KLZ_WT19)	19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38			06:18		06:46 (SAM_WT06)	07:07		07:39 (KLZ_WT19)	07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02			21:24	1	06:47 (SAM_WT06)	20:20	15	07:54 (KLZ_WT19)	19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39			06:20			07:08		07:37 (KLZ_WT19)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01			21:22			20:18	17	07:54 (KLZ_WT19)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40			06:21			07:10		07:37 (KLZ_WT19)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00			21:20			20:15	18	07:55 (KLZ_WT19)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41			06:23			07:11		07:36 (KLZ_WT19)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00			21:18			20:13	18	07:54 (KLZ_WT19)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42			06:24			07:13		07:38 (KLZ_WT19)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59			21:16			20:11	16	07:54 (KLZ_WT19)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43			06:26			07:14		07:39 (KLZ_WT19)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58			21:14			20:09	14	07:53 (KLZ_WT19)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44			06:27			07:16		07:41 (KLZ_WT19)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57			21:13			20:06	12	07:53 (KLZ_WT19)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45			06:29			07:18		07:42 (KLZ_WT19)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56			21:11			20:04	9	07:51 (KLZ_WT19)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47			06:31			07:19		07:44 (KLZ_WT19)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56			21:09			20:02	6	07:50 (KLZ_WT19)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48			06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55			21:07	3	07:05 (SAM_WT07)	20:00	1	07:46 (KLZ_WT19)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49			06:34		07:00 (SAM_WT07)	07:22			08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54			21:05	7	07:07 (SAM_WT07)	19:57			18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50			06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53			21:03	6	07:08 (SAM_WT07)	19:55	6	07:55 (KLZ_WT10)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51			06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51			21:01	5	07:08 (SAM_WT07)	19:53	5	07:55 (KLZ_WT10)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53		06:39 (KLZ_WT23)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50	6	06:45 (KLZ_WT23)	20:59	4	07:09 (SAM_WT07)	19:50	3	07:55 (KLZ_WT10)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54		06:37 (KLZ_WT23)	06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49	10	06:47 (KLZ_WT23)	20:57	2	07:08 (SAM_WT07)	19:48	1	07:54 (KLZ_WT10)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55		06:36 (KLZ_WT23)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48	12	06:48 (KLZ_WT23)	20:55			19:46			18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56		06:35 (KLZ_WT23)	06:43			07:32			08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47	13	06:48 (KLZ_WT23)	20:53			19:44			18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58		06:35 (KLZ_WT23)	06:45			07:33			08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45	15	06:50 (KLZ_WT23)	20:50			19:41			18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59		06:34 (KLZ_WT23)	06:46			07:35			07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44	16	06:50 (KLZ_WT23)	20:48			19:39			17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01		06:34 (KLZ_WT23)	06:48			07:37			07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43	16	06:50 (KLZ_WT23)	20:46			19:37			17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02		06:33 (KLZ_WT23)	06:49			07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41	17	06:50 (KLZ_WT23)	20:44			19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03		06:34 (KLZ_WT23)	06:51			07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40	17	06:51 (KLZ_WT23)	20:42			19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05		06:34 (KLZ_WT23)	06:52			07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38	16	06:50 (KLZ_WT23)	20:40			19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06		06:35 (KLZ_WT23)	06:54			07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37	16	06:51 (KLZ_WT23)	20:38			19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT23)	06:56						07:35						08:50		12:36 (KLZ_WT16)
	21:35	14	06:50 (KLZ_WT23)	20:35						17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		168			70			161			119			311			1476	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,68			0,63			0,56			0,60			0,68	
Total reduction		0,30			0,31			0,26			0,20			0,16			0,15	
Total, real		51			22			43			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		06:20 (KLZ_WT23)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	24	08:10 (KLZ_WT19)	21:06	75	19:55 (KLZ_WT15)	21:51	89	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		06:22 (KLZ_WT23)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	22	08:09 (KLZ_WT19)	21:08	76	19:56 (KLZ_WT15)	21:52	86	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (KLZ_WT19)	06:17		18:40 (KLZ_WT15)	05:35		06:22 (KLZ_WT23)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	20	08:08 (KLZ_WT19)	21:10	77	19:57 (KLZ_WT15)	21:53	85	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17		07:49 (KLZ_WT19)	06:15		18:39 (KLZ_WT15)	05:34		06:23 (KLZ_WT23)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	6	08:23 (KLZ_WT08)	20:22	18	08:07 (KLZ_WT19)	21:11	78	19:57 (KLZ_WT15)	21:54	82	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24			07:14		07:50 (KLZ_WT19)	06:13		18:38 (KLZ_WT15)	05:34		06:24 (KLZ_WT23)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32			20:24	16	08:06 (KLZ_WT19)	21:13	79	19:57 (KLZ_WT15)	21:55	80	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21			07:12		07:50 (KLZ_WT19)	06:11		18:39 (KLZ_WT15)	05:33		06:25 (KLZ_WT23)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33			20:25	13	08:03 (KLZ_WT19)	21:14	79	19:58 (KLZ_WT15)	21:56	77	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19			07:10		07:52 (KLZ_WT19)	06:09		18:38 (KLZ_WT15)	05:32		06:28 (KLZ_WT23)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35			20:27	9	08:01 (KLZ_WT19)	21:16	80	19:58 (KLZ_WT15)	21:56	72	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17			07:08			06:08		06:32 (SAM_WT06)	05:32		18:48 (KLZ_WT15)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37			20:29			21:17	81	19:57 (KLZ_WT15)	21:57	70	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15			07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		18:47 (KLZ_WT15)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39			20:30	1	07:29 (SAM_WT04)	21:19	83	19:58 (KLZ_WT15)	21:58	71	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13			07:03			06:04		06:29 (SAM_WT06)	05:31		18:48 (KLZ_WT15)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40			20:32			21:21	86	19:58 (KLZ_WT15)	21:59	70	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11			07:01			06:03		06:28 (SAM_WT06)	05:31		18:49 (KLZ_WT15)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42			20:34			21:22	86	19:58 (KLZ_WT15)	22:00	69	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08			06:59			06:01		06:26 (SAM_WT06)	05:30		18:48 (KLZ_WT15)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44			20:35			21:24	88	19:58 (KLZ_WT15)	22:00	70	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06			06:57		19:17 (KLZ_WT15)	06:00		06:25 (KLZ_WT23)	05:30		18:49 (KLZ_WT15)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45			20:37	7	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	69	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04			06:55		19:09 (KLZ_WT15)	05:58		06:23 (KLZ_WT23)	05:30		18:50 (KLZ_WT15)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47			20:38	23	19:32 (KLZ_WT15)	21:27	89	19:58 (KLZ_WT15)	22:02	68	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02			06:53		19:05 (KLZ_WT15)	05:56		06:22 (KLZ_WT23)	05:30		18:50 (KLZ_WT15)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49			20:40	31	19:36 (KLZ_WT15)	21:28	91	19:58 (KLZ_WT15)	22:02	68	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59			06:50		07:13 (SAM_WT11)	05:55		06:21 (KLZ_WT23)	05:30		18:50 (KLZ_WT15)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50			20:42	37	19:38 (KLZ_WT15)	21:30	94	19:59 (KLZ_WT15)	22:03	68	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57			06:48		07:11 (SAM_WT11)	05:54		06:19 (KLZ_WT23)	05:30		18:51 (KLZ_WT15)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52			20:43	44	19:41 (KLZ_WT15)	21:31	95	19:58 (KLZ_WT15)	22:03	68	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		06:18 (KLZ_WT23)	05:30		18:51 (KLZ_WT15)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	2	07:19 (KLZ_WT10)	20:45	48	19:43 (KLZ_WT15)	21:33	97	19:58 (KLZ_WT15)	22:03	68	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		18:55 (KLZ_WT15)	05:51		06:18 (KLZ_WT23)	05:30		18:51 (KLZ_WT15)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	5	07:20 (KLZ_WT10)	20:47	49	19:44 (KLZ_WT15)	21:34	98	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		18:53 (KLZ_WT15)	05:49		06:18 (KLZ_WT23)	05:30		18:51 (KLZ_WT15)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	7	07:20 (KLZ_WT10)	20:48	53	19:46 (KLZ_WT15)	21:35	98	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		18:51 (KLZ_WT15)	05:48		06:18 (KLZ_WT23)	05:30		18:51 (KLZ_WT15)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	9	07:19 (KLZ_WT10)	20:50	56	19:47 (KLZ_WT15)	21:37	98	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:17 (KLZ_WT23)	05:30		18:52 (KLZ_WT15)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	9	07:18 (KLZ_WT10)	20:52	61	19:49 (KLZ_WT15)	21:38	98	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:10 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:17 (KLZ_WT23)	05:30		18:52 (KLZ_WT15)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	7	07:17 (KLZ_WT10)	20:53	65	19:50 (KLZ_WT15)	21:40	97	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41			06:34		06:57 (SAM_WT07)	05:44		06:17 (KLZ_WT23)	05:31		18:52 (KLZ_WT15)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04			20:55	69	19:51 (KLZ_WT15)	21:41	97	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT19)	06:32		06:55 (SAM_WT07)	05:43		06:17 (KLZ_WT23)	05:31		18:53 (KLZ_WT15)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	3	07:04 (KLZ_WT19)	20:57	73	19:51 (KLZ_WT15)	21:42	97	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT19)	06:30		06:53 (SAM_WT07)	05:42		06:17 (KLZ_WT23)	05:31		18:52 (KLZ_WT15)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	8	07:07 (KLZ_WT19)	20:58	76	19:52 (KLZ_WT15)	21:43	96	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (KLZ_WT19)	06:28		06:51 (SAM_WT07)	05:41		06:18 (KLZ_WT23)	05:32		18:53 (KLZ_WT15)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	12	07:09 (KLZ_WT19)	21:00	79	19:53 (KLZ_WT15)	21:45	95	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (KLZ_WT19)	06:26		06:51 (SAM_WT07)	05:40		06:18 (KLZ_WT23)	05:32		18:53 (KLZ_WT15)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	15	07:10 (KLZ_WT19)	21:01	80	19:54 (KLZ_WT15)	21:46	94	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (KLZ_WT19)	06:24		06:53 (SAM_WT07)	05:39		06:19 (KLZ_WT23)	05:33		18:53 (KLZ_WT15)
	17:29	3	08:57 (RHR_WT01)				20:12	18	08:10 (KLZ_WT19)	21:03	78	19:55 (KLZ_WT15)	21:47	92	19:58 (KLZ_WT15)	22:05	69	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (KLZ_WT19)	06:22		18:41 (KLZ_WT15)	05:38		06:20 (KLZ_WT23)	05:33		18:53 (KLZ_WT15)
	17:31	5	08:58 (RHR_WT01)				20:14	20	08:10 (KLZ_WT19)	21:05	74	19:55 (KLZ_WT15)	21:48	91	19:58 (KLZ_WT15)	22:04	69	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		06:20 (KLZ_WT23)			
	17:33	6	08:57 (RHR_WT01)				20:15	22	08:10 (KLZ_WT19)				21:49	90	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			187			1126			2762			2148	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,55			0,60			0,60			0,60			0,59	
Total reduction		0,17			0,16			0,22			0,27			0,27			0,26	
Total, real		186			31			42			303			741			550	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		18:53 (KLZ_WT15)	06:09		06:37 (SAM_WT06)	06:57			07:44			07:37			08:26		09:00 (RHR_WT03)
	22:04	69	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33			19:25			17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		18:52 (KLZ_WT15)	06:11		06:39 (SAM_WT06)	06:59			07:46			07:38			08:27		09:00 (RHR_WT03)
	22:04	70	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31			19:23			17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		18:53 (KLZ_WT15)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48			07:40			08:29		09:00 (RHR_WT03)
	22:04	70	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	1	07:27 (SAM_WT04)	19:21			17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		18:53 (KLZ_WT15)	06:14		06:41 (SAM_WT06)	07:02			07:49			07:42			08:30		09:02 (RHR_WT03)
	22:03	70	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27			19:19			17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		18:53 (KLZ_WT15)	06:15		06:43 (SAM_WT06)	07:03		07:49 (KLZ_WT19)	07:51			07:44			08:31		09:03 (RHR_WT03)
	22:03	71	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24	9	07:58 (KLZ_WT19)	19:16			17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		06:32 (KLZ_WT23)	06:17		18:48 (KLZ_WT15)	07:05		07:46 (KLZ_WT19)	07:53			07:45			08:33		09:04 (RHR_WT03)
	22:02	77	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22	13	07:59 (KLZ_WT19)	19:14			17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		06:31 (KLZ_WT23)	06:18		18:48 (KLZ_WT15)	07:07		07:45 (KLZ_WT19)	07:54			07:47			08:34		09:06 (RHR_WT03)
	22:02	79	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20	16	08:01 (KLZ_WT19)	19:12			17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		06:30 (KLZ_WT23)	06:20		18:48 (KLZ_WT15)	07:08		07:43 (KLZ_WT19)	07:56			07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	83	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18	18	08:01 (KLZ_WT19)	19:10			17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		06:30 (KLZ_WT23)	06:21		18:49 (KLZ_WT15)	07:10		07:42 (KLZ_WT19)	07:58			07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	84	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	20	08:02 (KLZ_WT19)	19:08			17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		06:29 (KLZ_WT23)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	86	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	22	08:02 (KLZ_WT19)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		06:29 (KLZ_WT23)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	87	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	24	08:02 (KLZ_WT19)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		06:29 (KLZ_WT23)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	88	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	22	08:01 (KLZ_WT19)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		06:28 (KLZ_WT23)	06:27		18:49 (KLZ_WT15)	07:16		07:41 (KLZ_WT19)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	90	20:06 (KLZ_WT15)	21:13	74	20:03 (KLZ_WT15)	20:06	20	08:01 (KLZ_WT19)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		06:28 (KLZ_WT23)	06:29		07:00 (SAM_WT07)	07:18		07:42 (KLZ_WT19)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	92	20:07 (KLZ_WT15)	21:11	78	20:02 (KLZ_WT15)	20:04	18	08:00 (KLZ_WT19)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		06:28 (KLZ_WT23)	06:30		06:57 (SAM_WT07)	07:19		07:44 (KLZ_WT19)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	93	20:07 (KLZ_WT15)	21:09	81	20:01 (KLZ_WT15)	20:02	15	07:59 (KLZ_WT19)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		06:27 (KLZ_WT23)	06:32		06:59 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	94	20:07 (KLZ_WT15)	21:07	78	20:00 (KLZ_WT15)	20:00	12	07:57 (KLZ_WT19)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		06:27 (KLZ_WT23)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT19)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	95	20:07 (KLZ_WT15)	21:05	76	19:59 (KLZ_WT15)	19:57	9	07:56 (KLZ_WT19)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		06:27 (KLZ_WT23)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT19)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	96	20:07 (KLZ_WT15)	21:03	72	19:58 (KLZ_WT15)	19:55	4	07:53 (KLZ_WT19)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		06:27 (KLZ_WT23)	06:37		07:03 (SAM_WT07)	07:25			08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	96	20:07 (KLZ_WT15)	21:01	68	19:56 (KLZ_WT15)	19:53			18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		06:27 (KLZ_WT23)	06:38		07:05 (SAM_WT07)	07:27		07:57 (KLZ_WT10)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	99	20:09 (KLZ_WT15)	20:59	64	19:55 (KLZ_WT15)	19:50	6	08:03 (KLZ_WT10)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		06:27 (KLZ_WT23)	06:40		18:54 (KLZ_WT15)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	98	20:08 (KLZ_WT15)	20:57	59	19:53 (KLZ_WT15)	19:48	9	08:04 (KLZ_WT10)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		06:27 (KLZ_WT23)	06:41		18:56 (KLZ_WT15)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	97	20:08 (KLZ_WT15)	20:55	56	19:52 (KLZ_WT15)	19:46	10	08:05 (KLZ_WT10)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		06:27 (KLZ_WT23)	06:43		18:57 (KLZ_WT15)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	98	20:08 (KLZ_WT15)	20:53	52	19:49 (KLZ_WT15)	19:44	8	08:04 (KLZ_WT10)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		06:28 (KLZ_WT23)	06:45		18:59 (KLZ_WT15)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	98	20:09 (KLZ_WT15)	20:50	49	19:48 (KLZ_WT15)	19:41	6	08:04 (KLZ_WT10)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		06:28 (KLZ_WT23)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	98	20:09 (KLZ_WT15)	20:48	47	19:45 (KLZ_WT15)	19:39	3	08:03 (KLZ_WT10)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT23)	06:48		07:14 (SAM_WT11)	07:36			07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	96	20:09 (KLZ_WT15)	20:46	43	19:43 (KLZ_WT15)	19:37			17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT23)	06:49		07:15 (SAM_WT11)	07:38			07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	95	20:08 (KLZ_WT15)	20:44	37	19:40 (KLZ_WT15)	19:35			17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT23)	06:51		19:07 (KLZ_WT15)	07:40			07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	92	20:09 (KLZ_WT15)	20:42	30	19:37 (KLZ_WT15)	19:32			17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT23)	06:52		19:10 (KLZ_WT15)	07:41			07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	91	20:09 (KLZ_WT15)	20:40	22	19:32 (KLZ_WT15)	19:30			17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:34 (KLZ_WT23)	06:54		19:19 (KLZ_WT15)	07:43			07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	87	20:08 (KLZ_WT15)	20:38	5	19:24 (KLZ_WT15)	19:28			17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT23)	06:56						07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35						17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		2727			1952			265			210			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,61			0,59			0,62			0,56			0,70			0,68	
Total reduction		0,26			0,27			0,26			0,20			0,18			0,15	
Total, real		721			527			69			41			99			261	

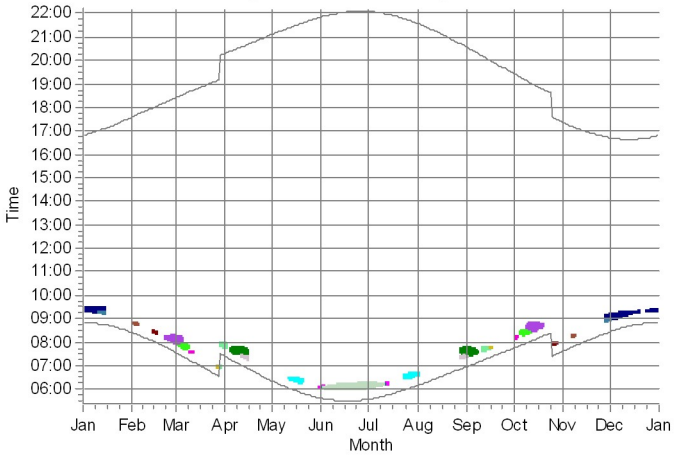
Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

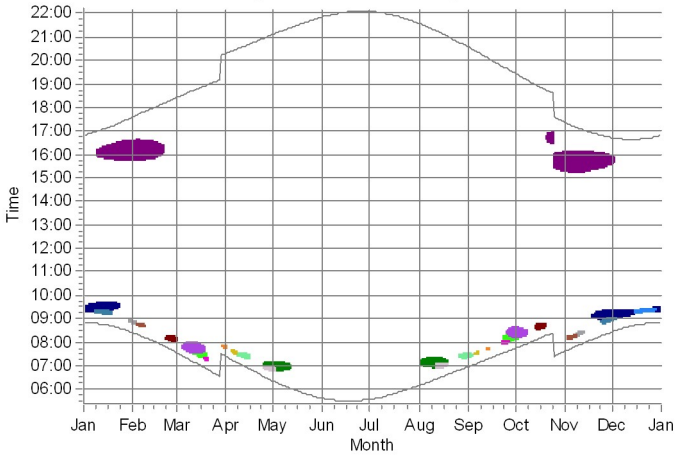
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

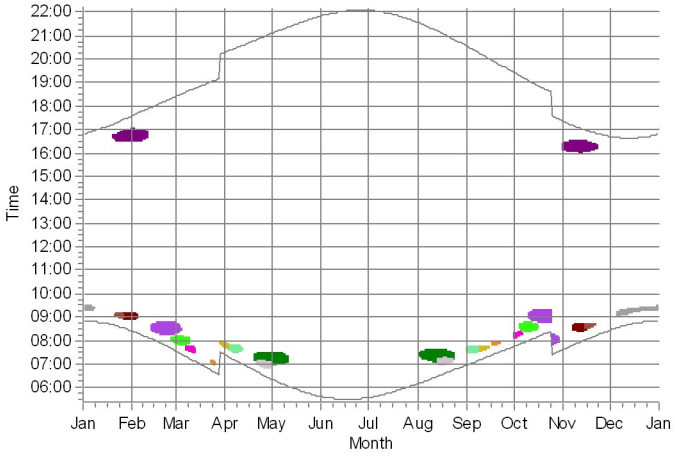
1: Hoogstraat 54, 9940 Evergem



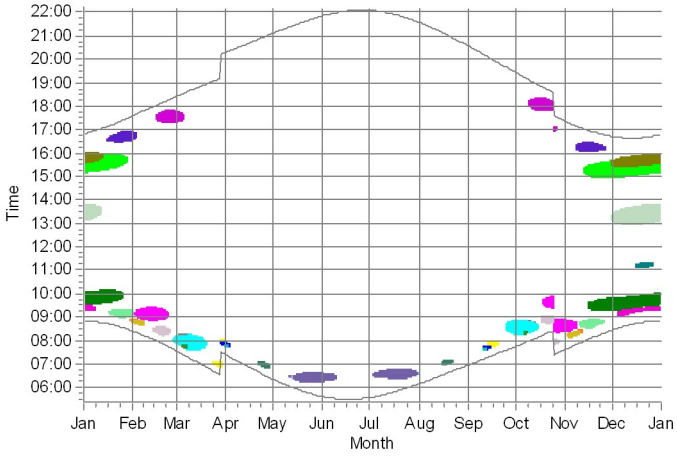
2: Pachtgoederen 2, 9940 Evergem



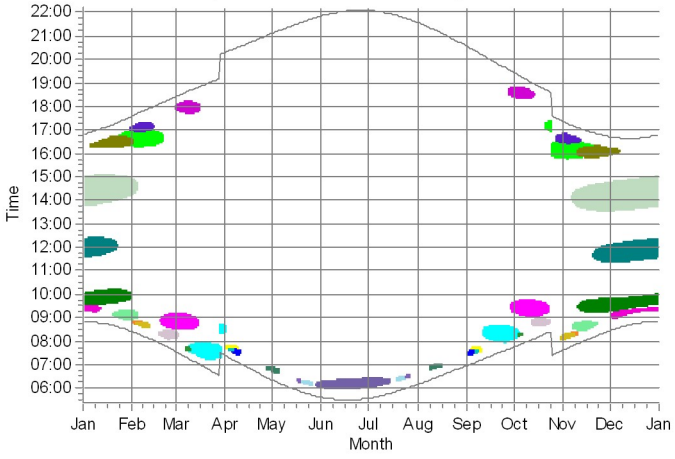
3: Pachtgoederen 2, 9940 Evergem



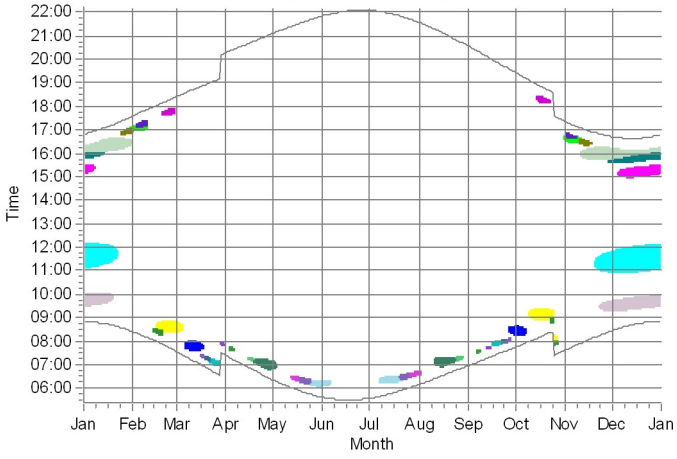
4: Ooievaarstraat 7, 9940 Evergem



5: Speidamstraat 58, 9940 Evergem



6: Rimewegel 46, 9940 Evergem



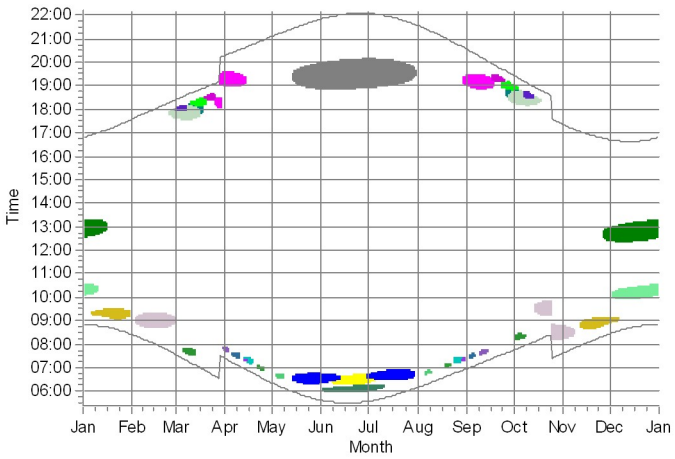
WTGs

KLZ_WT23: KLZ_WT23 Stukwerkers
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)
EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)
EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!

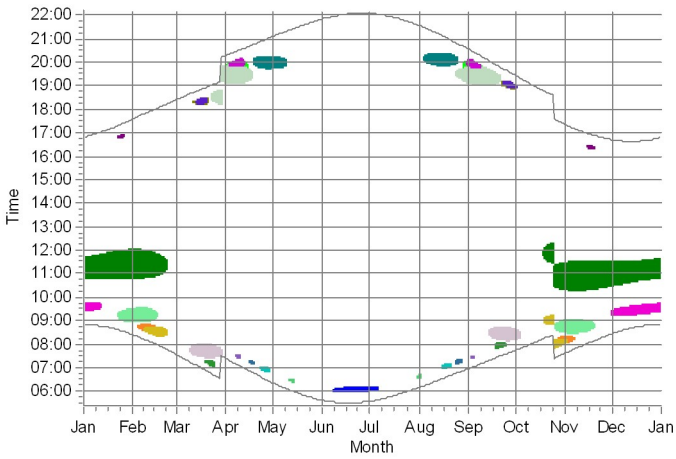
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

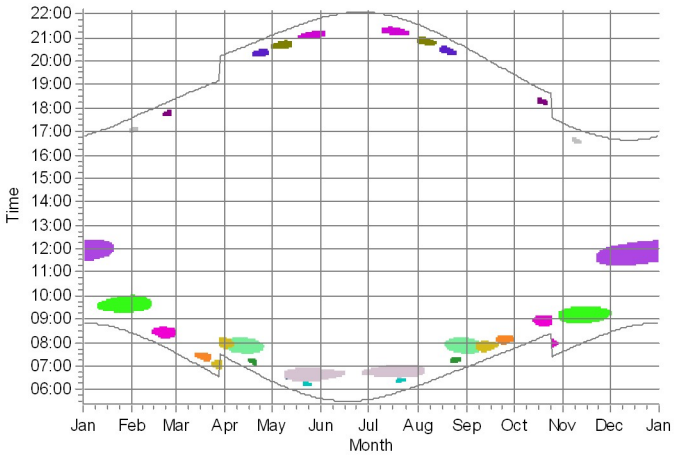
7: Christoffel Columbuslaan 23, 9042 Gent



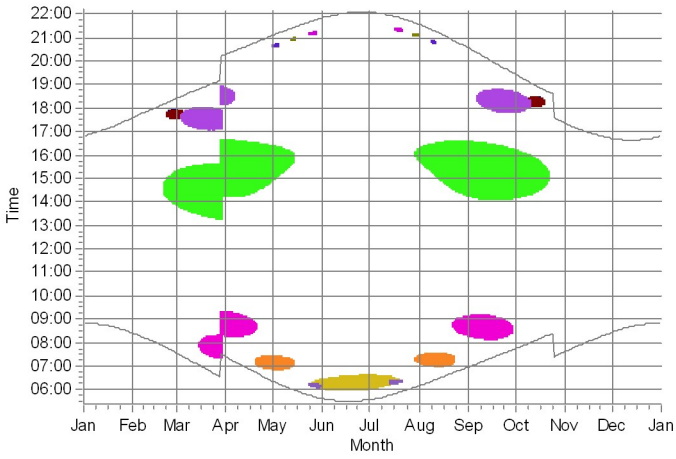
8: Christoffel Columbuslaan 23, 9042 Gent



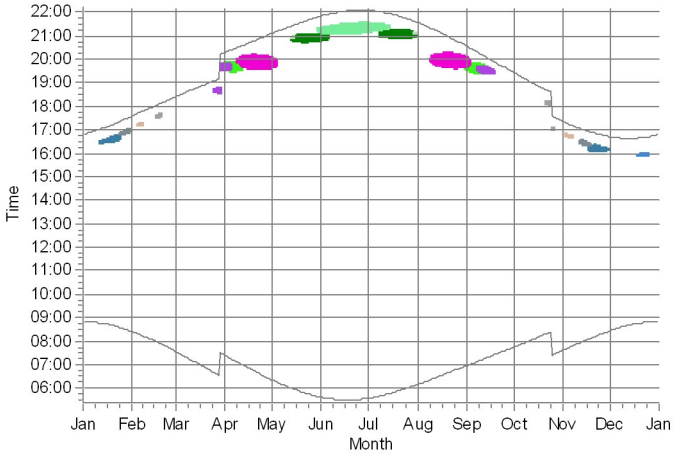
9: Willem van Rubroeckstraat 2, 9042 Gent



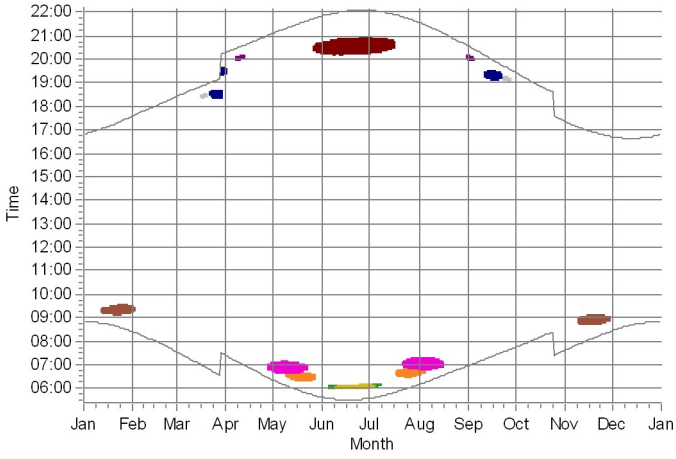
10: Arbedkaai 3, 9042 Gent



11: Schuitstraat 1, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

KLZ_WT23: KLZ_WT23 Stukwerkers
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

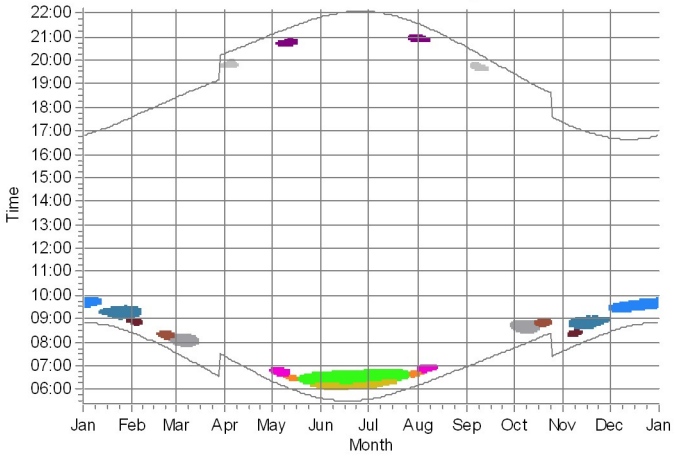
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

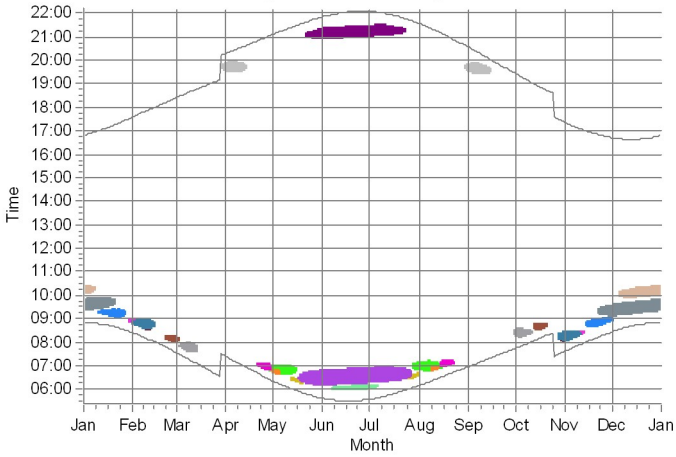
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

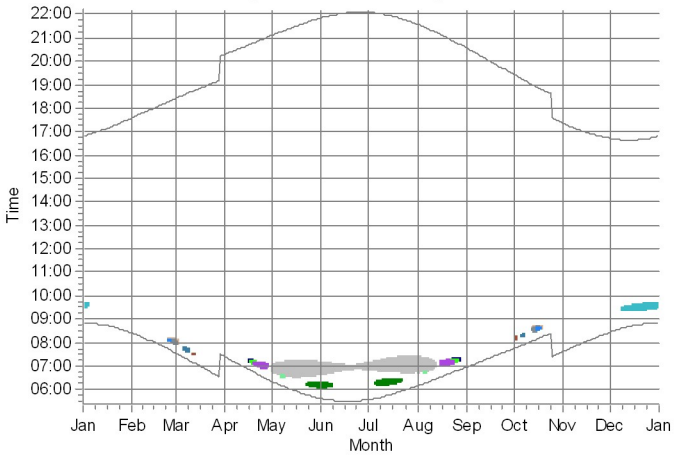
13: Doornzele Dries 107, 9940 Evergem



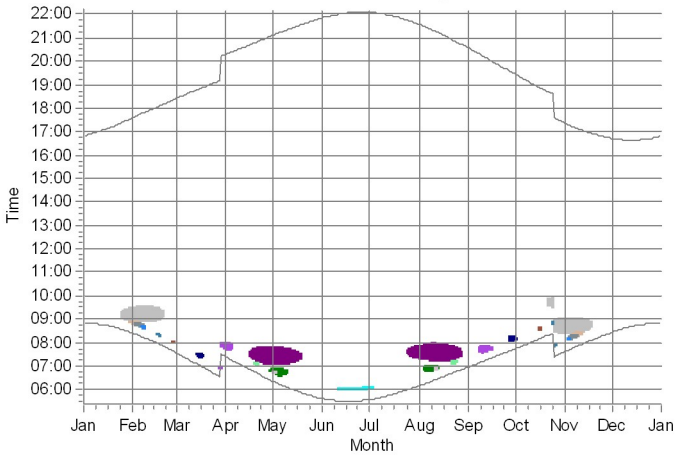
14: Abdijdreef 2, 9940 Evergem



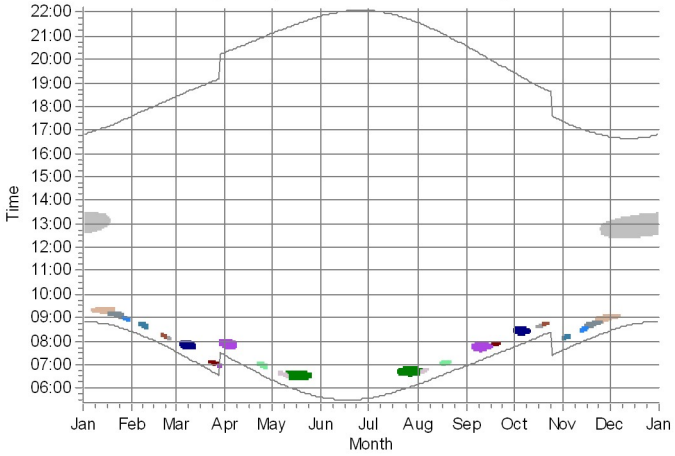
15: Hageland 41, 9940 Evergem



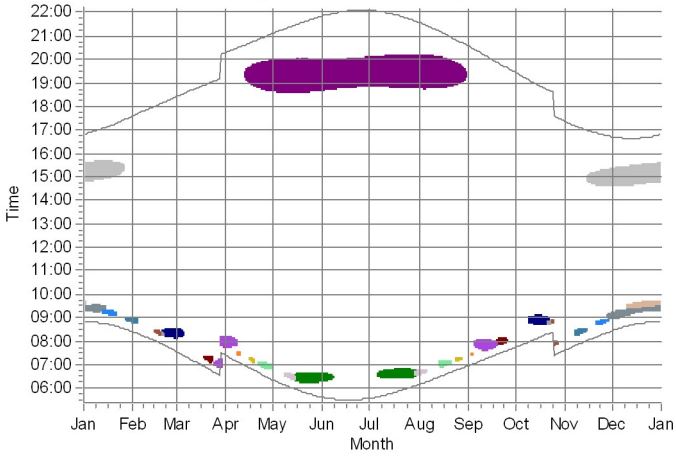
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

- KLZ_WT23: KLZ_WT23 Stukwerkers
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
- MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:49-11:38/49 09:34-09:59/25	08:24 10:50-11:58/68	07:32	07:23	06:20 06:44-07:27/43	05:36 06:20-06:34/14 20:49-21:01/12
	16:48 12:35-13:14/39	17:35	18:25	20:17	21:06	21:50 06:04-06:15/11
2	08:49 10:49-11:39/50 09:35-10:00/25	08:22 10:49-11:58/69	07:30	07:21	06:18 06:42-07:27/45	05:36 06:22-06:35/13 20:50-21:00/10
	16:49 12:36-13:15/39	17:36	18:26	20:19	21:08	21:52 06:06-06:16/10
3	08:49 10:50-11:40/50 09:35-10:01/26	08:21 10:49-11:58/69	07:28	07:19	06:16 06:41-07:27/46	05:35 06:22-06:34/12 20:51-21:00/9
	16:50 12:37-13:15/38	17:38	18:28	20:20	21:09	21:53 06:06-06:15/9
4	08:49 10:49-11:41/52 09:35-10:01/26	08:19 10:50-11:58/68	07:26	07:16	06:15 06:39-07:26/47	05:34 06:23-06:33/10 20:52-20:59/7
	16:51 12:37-13:14/37	17:40	18:30	20:22	21:11	21:54 06:07-06:15/8
5	08:49 10:49-11:42/53 09:36-10:02/26	08:18 10:50-11:58/68	07:24	07:14 07:37-07:44/7	06:13 06:37-07:25/48	05:33 06:24-06:32/8 20:54-20:58/4
	16:52 12:38-13:15/37	17:42	18:32	20:24	21:13	21:55 06:07-06:14/7
6	08:49 10:49-11:42/53 09:35-10:02/27	08:16 10:50-11:57/67	07:21	07:12 07:34-07:45/11	06:11 06:38-07:25/47	05:33 06:25-06:31/6
	16:54 12:39-13:14/35	17:44	18:33	20:25	21:14	21:56 06:09-06:14/5
7	08:48 10:49-11:43/54 09:36-10:03/27	08:14 10:51-11:57/66	07:19	07:10 07:32-07:46/14	06:09 06:38-06:49/11	05:32 06:28-06:29/1
	16:55 12:40-13:14/34	17:45	18:35	20:27	21:16 06:50-07:23/33	21:56 06:09-06:13/4
8	08:48 10:49-11:44/55 09:36-10:04/28	08:13 10:52-11:57/65	07:17	07:08 07:30-07:46/16	06:08 06:32-06:35/3 06:50-07:21/31	05:32
	16:56 12:41-13:14/33	17:47	18:37	20:29	21:17 06:39-06:47/8	21:57
9	08:47 10:49-11:45/56 09:37-10:05/28	08:11 10:52-11:56/64	07:15	07:05 07:29-07:47/18	06:06 06:31-06:37/6 07:07-07:20/13	05:31
	16:57 12:43-13:14/31	17:49	18:38	20:30	21:19 06:42-06:46/4 06:52-07:05/13	21:58
10	08:47 10:49-11:46/57 09:36-10:05/29	08:09 10:53-11:56/63	07:13	07:03 07:29-07:47/18	06:04 06:29-06:38/9 06:53-07:02/9	05:31
	16:59 12:44-13:13/29	17:51	18:40	20:32	21:21 07:09-07:17/8	21:59
11	08:46 10:49-11:46/57 09:36-10:05/29	08:08 10:53-11:55/62	07:10	07:01 07:29-07:46/17	06:03 06:28-06:39/11	05:31
	17:00 12:45-13:12/27	17:53	18:42	20:33	21:22 06:56-07:00/4	22:00
12	08:46 10:49-11:48/59 09:37-10:07/30	08:06 10:54-11:54/60	07:08	06:59 07:28-07:45/17	06:01 06:26-06:39/13	05:30
	17:02 12:47-13:12/25	17:54	18:44	20:35	21:24	22:00
13	08:45 10:49-11:49/60 09:37-10:07/30	08:04 10:54-11:53/59	07:06	06:57 07:29-07:44/15	05:59 06:25-06:40/15	05:30
	17:03 12:49-13:11/22	17:56	18:45	20:37	21:25 20:50-20:56/6	22:01
14	08:44 10:49-11:49/60 09:37-10:07/30	08:02 10:55-11:51/56	07:04	06:55 07:30-07:42/12	05:58 06:23-06:40/17	05:30
	17:05 12:51-13:09/18	17:58	18:47	20:38	21:27 20:48-20:57/9	22:01
15	08:44 10:49-11:50/61 09:38-10:08/30	08:00 10:56-11:50/54	07:02	06:52 07:31-07:40/9	05:56 06:22-06:40/18	05:30
	17:06 12:54-13:07/13	18:00	18:49	20:40	21:28 20:47-20:59/12	22:02
16	08:43 10:49-11:51/62	07:58 10:57-11:49/52	06:59	06:50	05:55 06:21-06:40/19	05:29
	17:08 09:38-10:08/30	18:02	18:50	20:42	21:30 20:46-20:59/13	22:03
17	08:42 10:49-11:51/62	07:56 10:59-11:47/48	06:57	06:48	05:53 06:19-06:39/20	05:29
	17:09 09:38-10:09/31	18:03	18:52	20:43	21:31 20:45-21:01/16	22:03
18	08:41 10:49-11:52/63	07:55 11:00-11:45/45	06:55	06:46	05:52 06:18-06:39/21	05:29
	17:11 09:39-10:09/30	18:05	18:54	20:45	21:33 20:45-21:02/17	22:03
19	08:40 10:49-11:53/64	07:53 11:02-11:42/40	06:53	06:44	05:51 06:18-06:39/21	05:29
	17:12 09:39-10:09/30	18:07	18:55	20:47	21:34 20:45-21:03/18	22:04
20	08:39 10:49-11:54/65	07:51 11:04-11:40/36	06:50	06:42 07:12-07:21/9	05:49 06:18-06:39/21	05:30
	17:14 09:40-10:09/29	18:09	18:57	20:48	21:35 20:44-21:03/19	22:04
21	08:38 10:48-11:54/66	07:49 11:07-11:36/29	06:48	06:40 07:09-07:24/15	05:48 06:18-06:38/20	05:30
	17:16 09:40-10:09/29	18:11	18:59	20:50	21:37 20:44-21:03/19	22:04
22	08:37 10:48-11:54/66	07:47 11:11-11:31/20	06:46	06:38 07:07-07:25/18	05:47 06:17-06:37/20	05:30
	17:17 09:41-10:09/28	18:12	19:00	20:52	21:38 20:44-21:03/19	22:05
23	08:36 10:48-11:55/67	07:45	06:43	06:36 07:05-07:26/21	05:46 06:17-06:36/19 20:45-21:04/19	05:30
	17:19 09:42-10:09/27	18:14	19:02	20:53	21:39 06:12-06:14/2	22:05
24	08:35 10:48-11:55/67	07:43	06:41	06:34 07:04-07:27/23	05:44 06:17-06:36/19 20:45-21:04/19	05:30
	17:21 09:43-10:09/26	18:16	19:04	20:55	21:41 06:11-06:15/4	22:05
25	08:34 10:48-11:56/68	07:40	06:39	06:32 06:55-07:27/32	05:43 06:17-06:36/19 20:45-21:03/18	05:31
	17:22 09:43-10:08/25	18:18	19:05	20:56	21:42 06:10-06:15/5	22:05
26	08:32 10:49-11:57/68	07:38	06:37	06:30 06:53-07:28/35	05:42 06:17-06:36/19 20:45-21:03/18	05:31
	17:24 09:44-10:08/24	18:19	19:07	20:58	21:43 06:09-06:15/6	22:05
27	08:31 10:48-11:57/69	07:36	06:34	06:28 06:51-07:28/37	05:41 06:18-06:36/18 20:46-21:03/17	05:32
	17:26 09:45-10:06/21	18:21	19:09	21:00	21:45 06:08-06:16/8	22:05
28	08:30 10:49-11:57/68	07:34	06:32	06:26 06:51-07:28/37	05:40 06:18-06:36/18 20:46-21:03/17	05:32
	17:28 09:47-10:06/19	18:23	19:10	21:01	21:46 06:08-06:16/8	22:05
29	08:28 10:48-11:57/69		07:30	06:24 06:48-06:49/1	05:39 06:19-06:36/17 20:47-21:02/15	05:33
	17:29 09:48-10:04/16		20:12	21:03 06:50-07:28/38	21:47 06:07-06:16/9	22:05
30	08:27 10:49-11:58/69		07:28	06:22 06:46-07:28/42	05:38 06:20-06:36/16 20:48-21:03/15	05:33
	17:31 09:51-10:02/11		20:14	21:05	21:48 06:06-06:16/10	22:04
31	08:25 10:49-11:58/69		07:25		05:37 06:20-06:35/15 20:48-21:02/14	
	17:33		20:15		21:49 06:05-06:16/11	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	3137	1228	0	462	1167	160

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 06:37-06:49/12 21:34	06:57 07:28-07:45/17 20:33	07:44 19:25	07:36 10:22-11:25/63 17:21	08:26 10:31-11:29/58 09:18-09:48/30 16:42 12:27-12:54/27
2	05:34 22:04	06:10 06:39-06:49/10 07:05-07:12/7 21:32 07:23-07:25/2	06:59 07:27-07:45/18 20:31	07:46 19:23	07:38 10:22-11:26/64 17:19	08:27 10:32-11:29/57 09:19-09:48/29 16:41 12:27-12:56/29
3	05:35 22:03	06:12 06:40-06:48/8 07:02-07:14/12 21:30 07:18-07:29/11	07:00 07:27-07:45/18 20:29	07:48 19:21	07:40 10:21-11:26/65 17:17	08:29 10:32-11:28/56 09:20-09:48/28 16:41 12:26-12:57/31
4	05:36 22:03	06:13 06:41-06:46/5 07:16-07:30/14 21:29 06:51-06:57/6 07:01-07:15/14	07:02 07:27-07:43/16 20:27	07:49 19:19	07:42 10:20-11:27/67 17:16	08:30 10:34-11:29/55 09:21-09:49/28 16:40 12:26-12:59/33
5	05:37 06:17-06:18/1 22:03	06:15 06:43-06:45/2 07:00-07:32/32 21:27 06:49-06:58/9	07:03 07:29-07:43/14 20:24	07:51 19:16	07:43 10:20-11:27/67 17:14	08:31 10:34-11:29/55 09:21-09:49/28 16:40 12:25-12:59/34
6	05:37 06:32-06:37/5 22:02 06:14-06:19/5	06:16 06:48-07:33/45 21:25	07:05 07:30-07:41/11 20:22	07:52 19:14	07:45 10:20-11:28/68 17:12	08:33 10:35-11:28/53 09:21-09:48/27 16:39 12:25-13:00/35
7	05:38 06:31-06:38/7 22:02 06:14-06:20/6	06:18 06:47-07:34/47 21:23	07:06 07:32-07:40/8 20:20	07:54 19:12	07:47 10:20-11:28/68 17:11	08:34 10:36-11:29/53 09:23-09:49/26 16:39 12:25-13:02/37
8	05:39 06:30-06:40/10 21:00-21:06/6 22:01 06:14-06:21/7	06:20 06:47-07:35/48 21:22	07:08 07:33-07:35/2 20:18	07:56 19:10	07:49 10:20-11:28/68 17:09	08:35 10:37-11:29/52 09:23-09:49/26 16:39 12:25-13:02/37
9	05:40 06:30-06:41/11 20:59-21:07/8 22:00 06:13-06:22/9	06:21 06:49-07:36/47 21:20	07:10 20:15	07:57 19:08	07:50 10:20-11:29/69 17:07	08:36 10:38-11:29/51 09:23-09:49/26 16:38 12:25-13:03/38
10	05:41 06:29-06:42/13 20:58-21:08/10 22:00 06:13-06:23/10	06:23 06:50-07:36/46 21:18	07:11 20:13	07:59 19:05	07:52 10:20-11:29/69 17:06	08:37 10:38-11:28/50 09:24-09:49/25 16:38 12:25-13:04/39
11	05:42 06:29-06:42/13 20:58-21:09/11 21:59 06:13-06:24/11	06:24 06:52-07:35/43 21:16	07:13 20:11	08:01 19:03	07:54 10:21-11:29/68 17:04 09:27-09:29/2	08:38 10:39-11:28/49 09:24-09:50/26 16:38 12:25-13:04/39
12	05:43 06:29-06:43/14 20:57-21:10/13 21:58 06:13-06:24/11	06:26 06:53-07:36/43 21:14	07:14 20:09	08:02 19:01	07:56 10:20-11:29/69 17:03 09:22-09:33/11	08:39 10:40-11:28/48 09:25-09:50/25 16:38 12:25-13:05/40
13	05:44 06:28-06:44/16 20:57-21:11/14 21:57 06:14-06:24/10	06:27 06:54-07:36/42 21:12	07:16 20:06	08:04 18:59	07:57 10:20-11:29/69 17:01 09:20-09:36/16	08:40 10:40-11:29/49 09:25-09:50/25 16:38 12:25-13:06/41
14	05:45 06:28-06:44/16 20:56-21:11/15 21:56 06:15-06:25/10	06:29 06:58-07:36/38 21:11	07:17 20:04	08:06 18:57	07:59 10:21-11:29/68 17:00 09:19-09:38/19	08:41 10:41-11:29/48 09:26-09:51/25 16:38 12:25-13:06/41
15	05:46 06:28-06:45/17 20:56-21:12/16 21:55 06:16-06:25/9	06:30 06:58-07:35/37 21:09	07:19 20:02	08:07 18:55	08:01 10:21-11:29/68 16:59 09:18-09:39/21	08:42 10:42-11:29/47 09:27-09:51/24 16:38 12:26-13:07/41
16	05:48 06:27-06:45/18 20:55-21:12/17 21:54 06:17-06:25/8	06:32 06:59-07:35/36 21:07	07:21 19:59	08:09 18:52	08:02 10:22-11:30/68 16:57 09:17-09:41/24	08:43 10:43-11:30/47 09:27-09:51/24 16:38 12:26-13:08/42
17	05:49 06:27-06:46/19 20:55-21:13/18 21:53 06:18-06:25/7	06:33 07:00-07:34/34 21:05	07:22 19:57	08:11 18:50	08:04 10:22-11:30/68 16:56 09:17-09:42/25	08:44 10:44-11:30/46 09:28-09:52/24 16:38 12:27-13:09/42
18	05:50 06:27-06:46/19 20:55-21:13/18 21:52 06:19-06:25/6	06:35 07:02-07:34/32 21:03	07:24 19:55	08:12 18:48	08:06 10:22-11:29/67 16:55 09:17-09:43/26	08:45 10:44-11:30/46 09:28-09:52/24 16:39 12:26-13:09/43
19	05:51 06:27-06:46/19 20:54-21:13/19 21:51 06:21-06:26/5	06:37 07:10-07:32/22 21:01	07:25 19:53	08:14 11:47-11:57/10 18:46	08:07 10:22-11:29/67 16:53 09:16-09:43/27	08:45 10:45-11:30/45 09:29-09:53/24 16:39 12:27-13:10/43
20	05:52 06:27-06:47/20 20:54-21:13/19 21:50 06:22-06:25/3	06:38 07:11-07:32/21 20:59	07:27 19:50	08:16 11:41-12:04/23 18:44	08:09 10:23-11:29/66 16:52 09:16-09:44/28	08:46 10:46-11:31/45 09:30-09:53/23 16:39 12:28-13:10/42
21	05:54 06:27-06:47/20 20:55-21:14/19 21:49 06:23-06:24/1	06:40 07:12-07:30/18 20:57	07:28 19:48	08:17 11:37-12:08/31 18:42	08:11 10:24-11:30/66 16:51 09:16-09:45/29	08:47 10:46-11:31/45 09:30-09:53/23 16:40 12:28-13:10/42
22	05:55 06:27-06:48/21 21:48 20:55-21:14/19	06:41 07:14-07:28/14 20:55	07:30 19:46	08:19 11:34-12:11/37 18:40	08:12 10:25-11:30/65 16:50 09:16-09:45/29	08:47 10:47-11:32/45 09:31-09:54/23 16:40 12:29-13:11/42
23	05:56 06:27-06:48/21 21:47 20:55-21:14/19	06:43 07:16-07:25/9 20:52	07:32 19:43	08:21 11:32-12:14/42 18:38	08:14 10:25-11:29/64 16:49 09:15-09:45/30	08:48 10:47-11:32/45 09:31-09:54/23 16:41 12:29-13:11/42
24	05:58 06:28-06:50/22 21:45 20:55-21:13/18	06:44 20:50	07:33 19:41	08:23 11:30-12:16/46 18:36	08:16 10:26-11:29/63 16:48 09:16-09:46/30	08:48 10:47-11:32/45 09:32-09:55/23 16:41 12:29-13:11/42
25	05:59 06:28-06:50/22 21:44 20:56-21:14/18	06:46 20:48	07:35 19:39	07:24 10:29-11:18/49 17:34	08:17 10:27-11:30/63 16:47 09:16-09:47/31	08:48 10:48-11:33/45 09:32-09:56/24 16:42 12:30-13:13/43
26	06:00 06:29-06:50/21 21:42 20:56-21:12/16	06:48 20:46	07:36 19:37	07:26 10:28-11:19/51 17:32	08:19 10:27-11:29/62 16:46 09:16-09:46/30	08:49 10:48-11:34/46 09:32-09:56/24 16:43 12:31-13:13/42
27	06:02 06:30-06:50/20 21:41 20:56-21:11/15	06:49 20:44	07:38 19:34	07:28 10:26-11:20/54 17:30	08:20 10:28-11:29/61 09:17-09:47/30 16:45 12:33-12:46/13	08:49 10:48-11:34/46 09:32-09:56/24 16:43 12:31-13:13/42
28	06:03 06:32-06:51/19 21:40 20:57-21:10/13	06:51 07:33-07:42/9 20:42	07:40 19:32	07:30 10:25-11:21/56 17:28	08:22 10:29-11:29/60 09:18-09:48/30 16:44 12:31-12:49/18	08:49 10:48-11:35/47 09:33-09:57/24 16:44 12:32-13:13/41
29	06:05 06:33-06:50/17 21:38 20:58-21:08/10	06:52 07:31-07:43/12 20:40	07:41 19:30	07:31 10:24-11:23/59 17:26	08:23 10:29-11:29/60 09:17-09:47/30 16:43 12:29-12:51/22	08:49 10:48-11:36/48 09:33-09:57/24 16:45 12:32-13:13/41
30	06:06 06:34-06:51/17 21:37 20:59-21:07/8	06:54 07:30-07:45/15 20:38	07:43 19:28	07:33 10:23-11:24/61 17:25	08:25 10:30-11:29/59 09:18-09:48/30 16:43 12:28-12:53/25	08:49 10:48-11:36/48 09:33-09:58/25 16:46 12:33-13:14/41
31	06:08 06:36-06:50/14 21:35 21:01-21:06/5	06:55 07:28-07:45/17 20:35		07:35 10:23-11:25/62 17:23		08:50 10:49-11:37/48 09:34-09:59/25 16:47 12:34-13:14/40
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	894	819	104	581	2545	3509

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:37-09:40/3	08:24 08:50-08:54/4	07:32 07:59-08:04/5	07:23	06:20	05:37
	16:48 10:05-10:22/17	17:35	18:25	20:17	21:06	21:50
2	08:49 10:07-10:22/15	08:22 08:48-08:54/6	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 10:07-10:21/14	08:21 08:46-08:53/7	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:08-10:21/13	08:19 08:46-08:53/7	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:10-10:20/10	08:18 17:12-17:13/1	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 10:11-10:19/8	08:16 17:12-17:15/3	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:20/2	08:14 17:13-17:17/4	07:19	07:10	06:09	05:32
	16:55 10:15-10:17/2	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:17-09:21/4	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:16-09:22/6	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:22/7	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:14-09:23/9	08:04	07:06	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:24/11	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:12-09:24/12	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:12-09:24/12	07:56	06:57	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:13-09:23/10	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:15-09:23/8	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:17-09:22/5	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:08/6	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:08/8	06:35	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:06/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:54/1		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	195	61	5	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40	16:45-16:47/2	08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	16:43-16:46/3	08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	16:42-16:44/2	08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12	16:42-16:43/1	16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02		07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:32-08:38/6	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:39/8	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:40/7	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:41/6	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11	08:36-08:39/3	08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12	08:38-08:39/1	08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	31		124		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December	
1	08:49 09:32-09:40/8	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26	
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42	
2	08:49 09:33-09:40/7	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27	
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42	
3	08:49 09:35-09:39/4	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29	
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41	
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30	
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41	
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31	
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40	
6	08:49	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33	
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40	
7	08:48	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34	
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39	
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35	
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39	
9	08:47	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36	09:23-09:27/4
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39	
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37	09:22-09:29/7
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38	
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38	09:22-09:30/8
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38	
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39	09:22-09:31/9
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38	
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40	09:22-09:32/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38	
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41	09:22-09:32/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38	
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42	09:22-09:33/11
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38	
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43	09:23-09:34/11
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38	
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44	09:23-09:35/12
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39	
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44	09:23-09:35/12
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39	
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45	09:24-09:36/12
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39	
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46	09:24-09:37/13
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40	
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46	09:24-09:37/13
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40	
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47	09:25-09:38/13
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40	
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47	09:25-09:38/13
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41	
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48	09:26-09:38/12
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42	
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48	09:27-09:39/12
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42	
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49	09:27-09:39/12
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43	
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49	09:28-09:39/11
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44	
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49	09:28-09:39/11
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44	
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49	09:29-09:39/10
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45	
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49	09:29-09:40/11
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46	
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49	09:30-09:40/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47	
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248	
Sum of minutes with flicker	19	0	0	0	0	0	0	0	0	0	0	247	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 09:22-09:57/35 17:35	07:32 13:53-15:15/82 18:25 07:55-08:08/13	07:23 07:46-08:01/15 14:16-16:35/139 20:17 19:33-19:51/18	06:20 06:44-06:58/14 21:06 15:01-16:20/79	05:36 06:13-06:40/27 21:50
2	08:49 16:49	08:22 09:22-09:56/34 17:36	07:30 13:51-15:17/86 18:26 07:53-08:09/16	07:21 07:43-07:59/16 14:16-16:35/139 20:19 19:32-19:52/20	06:18 06:42-06:58/16 21:08 15:04-16:19/75	05:36 06:14-06:41/27 21:51
3	08:49 16:50	08:21 09:22-09:56/34 17:38	07:28 13:49-15:19/90 18:28 07:51-08:09/18	07:19 07:44-07:57/13 14:16-16:35/139 20:20 19:31-19:52/21	06:16 06:41-07:00/19 21:09 15:06-16:17/71	05:35 06:14-06:40/26 21:53
4	08:49 16:51	08:19 09:23-09:56/33 17:40	07:26 13:47-15:21/94 18:30 07:49-08:09/20	07:16 07:46-07:50/4 14:16-16:35/139 20:22 19:31-19:53/22	06:15 06:40-07:00/20 21:11 15:10-16:17/67	05:34 06:13-06:40/27 21:54
5	08:49 16:52	08:18 09:23-09:55/32 17:42	07:24 13:44-15:21/97 18:32 07:47-08:07/20	07:14 19:30-19:52/22 20:24 14:16-16:35/139	06:13 06:40-06:59/19 21:13 15:13-16:16/63	05:33 06:14-06:41/27 21:55
6	08:49 16:54	08:16 09:24-09:54/30 17:44	07:21 13:43-15:23/100 18:33 07:44-08:07/23	07:12 19:30-19:51/21 20:25 14:16-16:34/138	06:11 06:40-07:00/20 21:14 15:16-16:14/58	05:33 06:14-06:41/27 21:55
7	08:48 16:55	08:14 09:25-09:53/28 17:45	07:19 13:41-15:24/103 18:35 07:43-08:05/22	07:10 19:30-19:51/21 20:27 14:16-16:34/138	06:09 06:40-07:00/20 21:16 15:20-16:13/53	05:32 06:14-06:41/27 21:56
8	08:48 16:56	08:13 09:26-09:53/27 17:47	07:17 13:40-15:26/106 07:45-07:51/6 18:37 07:54-08:04/10	07:08 19:31-19:50/19 20:28 14:16-16:34/138	06:08 06:39-06:59/20 21:17 15:23-16:11/48	05:32 06:15-06:42/27 21:57
9	08:47 16:58	08:11 09:28-09:51/23 17:49	07:15 13:38-15:26/108 18:38	07:05 19:32-19:49/17 20:30 14:17-16:34/137	06:06 06:40-06:59/19 21:19 15:26-16:10/44	05:31 06:15-06:41/26 21:58
10	08:47 16:59	08:09 09:29-09:49/20 17:51	07:13 13:36-15:27/111 18:40	07:03 19:33-19:48/15 20:32 14:17-16:34/137	06:04 06:40-06:58/18 21:20 15:30-16:08/38	05:31 06:15-06:42/27 21:59
11	08:46 09:31-09:35/4 17:00	08:08 09:31-09:47/16 17:53	07:10 13:35-15:28/113 18:42	07:01 19:34-19:45/11 20:33 14:17-16:32/135	06:03 06:41-06:58/17 21:22 15:34-16:07/33	05:31 06:16-06:42/26 21:59
12	08:46 09:28-09:38/10 17:02	08:06 09:34-09:43/9 17:54	07:08 13:34-15:30/116 18:44 07:31-07:35/4	06:59 14:18-16:32/134 20:35	06:01 06:41-06:56/15 21:24 15:38-16:04/26	05:30 06:15-06:41/26 22:00
13	08:45 09:27-09:41/14 17:03	08:04 17:56	07:06 13:32-15:30/118 18:45 07:29-07:36/7	06:57 14:19-16:32/133 20:37	05:59 06:43-06:56/13 21:25 15:43-16:00/17	05:30 06:15-06:42/27 22:01
14	08:44 09:26-09:43/17 17:05	08:02 17:58	07:04 13:31-15:31/120 18:47 07:26-07:36/10	06:55 14:20-16:31/131 20:38	05:58 06:44-06:53/9 21:27	05:30 06:16-06:42/26 22:01
15	08:44 09:25-09:44/19 17:06	08:00 18:00	07:01 13:30-15:31/121 18:49 07:24-07:36/12	06:52 14:21-16:31/130 20:40	05:56 06:47-06:51/4 21:28	05:30 06:16-06:42/26 22:02
16	08:43 09:24-09:46/22 17:08	07:58 18:02	06:59 13:29-15:32/123 18:50 07:22-07:36/14	06:50 14:23-16:31/128 20:42	05:55 21:30	05:29 06:16-06:43/27 22:02
17	08:42 09:23-09:47/24 17:09	07:56 18:03	06:57 13:27-15:32/125 18:52 07:22-07:35/13	06:48 07:11-07:13/2 20:43 14:24-16:30/126	05:53 21:31	05:29 06:17-06:43/26 22:03
18	08:41 09:23-09:48/25 17:11	07:54 18:05	06:55 13:26-15:33/127 18:54 07:22-07:33/11	06:46 07:09-07:13/4 20:45 14:26-16:30/124	05:52 06:24-06:27/3 21:32	05:29 06:17-06:43/26 22:03
19	08:40 09:22-09:50/28 17:12	07:53 18:07	06:53 13:25-15:34/129 18:55 07:23-07:32/9	06:44 07:07-07:12/5 20:47 14:28-16:29/121	05:51 06:21-06:31/10 21:34	05:29 06:17-06:43/26 22:04
20	08:39 09:22-09:51/29 17:14	07:51 18:09	06:50 13:25-15:34/129 18:57	06:42 07:05-07:10/5 20:48 14:30-16:29/119	05:49 06:19-06:33/14 21:35	05:30 06:17-06:43/26 22:04
21	08:38 09:21-09:51/30 17:16	07:49 14:21-14:48/27 18:11	06:48 13:23-15:34/131 18:59	06:40 14:32-16:28/116 20:50	05:48 06:17-06:33/16 21:37	05:30 06:17-06:43/26 22:04
22	08:37 09:21-09:52/31 17:17	07:47 14:15-14:53/38 18:12	06:46 13:22-15:34/132 19:00	06:38 14:34-16:27/113 20:51	05:47 06:16-06:35/19 21:38	05:30 06:18-06:44/26 22:04
23	08:36 09:21-09:53/32 17:19	07:45 14:11-14:58/47 18:14	06:43 13:22-15:35/133 19:02	06:36 14:37-16:27/110 20:53	05:46 06:16-06:36/20 21:39	05:30 06:18-06:44/26 22:05
24	08:35 09:20-09:53/33 17:21	07:42 14:07-15:02/55 18:16	06:41 13:20-15:34/134 19:04	06:34 14:39-16:26/107 20:55	05:44 06:15-06:36/21 21:41	05:30 06:18-06:44/26 22:05
25	08:33 09:20-09:54/34 17:22	07:40 14:04-15:05/61 18:18	06:39 13:20-15:35/135 19:05	06:32 14:42-16:25/103 20:56	05:43 06:15-06:37/22 21:42	05:31 06:19-06:45/26 22:05
26	08:32 09:21-09:55/34 17:24	07:38 14:01-15:08/67 18:19 08:02-08:04/2	06:37 13:19-15:35/136 19:07	06:30 14:45-16:24/99 20:58	05:42 06:14-06:37/23 21:43	05:31 06:19-06:45/26 22:05
27	08:31 09:20-09:55/35 17:26	07:36 13:57-15:10/73 18:21 08:00-08:07/7	06:34 06:57-07:01/4 19:09 13:19-15:36/137	06:28 14:48-16:23/95 21:00	05:41 06:14-06:38/24 21:45	05:32 06:18-06:44/26 22:05
28	08:30 09:21-09:56/35 17:28	07:34 13:55-15:13/78 18:23 07:57-08:07/10	06:32 06:55-07:02/7 19:10 13:18-15:35/137	06:26 14:51-16:22/91 21:01	05:40 06:13-06:38/25 21:46	05:32 06:19-06:45/26 22:05
29	08:28 09:20-09:55/35 17:29		07:30 07:52-08:01/9 14:18-16:35/137 20:12 19:41-19:46/5	06:24 06:48-06:56/8 21:03 14:55-16:22/87	05:39 06:14-06:39/25 21:47	05:33 06:20-06:46/26 22:05
30	08:27 09:21-09:56/35 17:31		07:28 07:50-08:01/11 14:17-16:35/138 20:14 19:37-19:49/12	06:22 06:46-06:57/11 21:05 14:58-16:21/83	05:38 06:14-06:40/26 21:48	05:33 06:19-06:46/27 22:04
31	08:25 09:21-09:56/35 17:33		07:25 07:48-08:01/13 14:17-16:36/139 20:15 19:35-19:50/15		05:37 06:14-06:40/26 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	561	786	3991	3958	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 19:33-19:44/11 20:33 14:17-16:32/135	07:44 14:12-16:09/117 19:25 08:09-08:15/6	07:36 08:58-09:20/22 17:21	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 19:31-19:46/15 20:31 14:15-16:31/136	07:46 14:13-16:08/115 19:23 08:11-08:13/2	07:38 08:57-09:21/24 17:19	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 19:30-19:47/17 20:29 14:15-16:32/137	07:48 14:14-16:06/112 19:21	07:40 08:55-09:22/27 17:17	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 19:28-19:47/19 20:27 14:13-16:31/138	07:49 14:15-16:05/110 19:19	07:42 08:54-09:23/29 17:16	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 19:27-19:48/21 20:24 14:13-16:31/138	07:51 14:16-16:03/107 08:23-08:27/4 19:16 08:32-08:39/7	07:43 08:54-09:24/30 17:14	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 19:26-19:47/21 20:22 14:12-16:30/138	07:52 14:17-16:01/104 08:20-08:28/8 19:14 08:29-08:41/12	07:45 08:53-09:25/32 17:12	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 19:26-19:48/22 20:20 14:11-16:30/139	07:54 14:18-16:00/102 19:12 08:19-08:42/23	07:47 08:53-09:26/33 17:11	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 14:10-16:29/139 20:18 19:25-19:47/22	07:56 14:20-15:58/98 19:10 08:21-08:43/22	07:49 08:53-09:26/33 17:09	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 14:10-16:29/139 20:15 19:26-19:47/21	07:57 14:20-15:56/96 19:08 08:22-08:43/21	07:50 08:52-09:27/35 17:07	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 14:09-16:28/139 20:13 19:25-19:45/20	07:59 14:22-15:54/92 19:05 08:24-08:43/19	07:52 08:52-09:27/35 17:06	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 14:09-16:28/139 20:11 19:26-19:44/18	08:01 14:24-15:52/88 19:03 08:26-08:43/17	07:54 08:53-09:28/35 17:04	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 14:08-16:27/139 20:09 19:26-19:42/16	08:02 14:25-15:49/84 19:01 08:28-08:42/14	07:56 08:52-09:27/35 17:03	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 14:09-16:27/138 20:06 19:28-19:40/12	08:04 14:27-15:47/80 18:59 08:29-08:41/12	07:57 08:52-09:27/35 17:01	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 14:08-16:26/138 20:04 19:30-19:37/7	08:06 14:29-15:45/76 18:57 08:31-08:40/9	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 18:55 08:33-08:38/5	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 07:09-07:14/5 20:52 14:33-16:32/119	07:32 14:08-16:18/130 19:43	08:21 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 07:11-07:16/5 20:50 14:31-16:33/122	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:12-07:16/4 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:16/2 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 14:24-16:32/128 20:44	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 14:23-16:33/130 20:42	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 17:28	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 19:30 08:06-08:17/11	07:31 17:26	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 19:28 08:08-08:16/8	07:33 09:03-09:14/11 17:25	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 19:38-19:40/2 20:35 14:18-16:32/134		07:35 09:00-09:17/17 17:23		08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3089	4419	1939	859	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: EAM_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:07-06:17/10	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35 06:07-06:17/10	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:09-06:17/8	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:09-06:16/7	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:11-06:15/4	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38 06:18-06:21/3	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39 06:17-06:23/6	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40 06:16-06:24/8	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41 06:16-06:25/9	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30	05:42 06:16-06:26/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43 06:15-06:26/11	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59 06:25-06:27/2	05:30	05:44 06:15-06:27/12	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45 06:15-06:27/12	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46 06:16-06:27/11	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47 06:17-06:28/11	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48 06:18-06:28/10	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:28/9	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29	05:51 06:20-06:28/8	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:17/1	05:29	05:52 06:21-06:27/6	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:16/2	05:29	05:53 06:23-06:28/5	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:47 06:13-06:17/4	05:30	05:55 06:24-06:27/3	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:12-06:18/6	05:30	05:56 06:25-06:27/2	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34	05:44 06:11-06:18/7	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43 06:10-06:18/8	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:09-06:18/9	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:08-06:18/10	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:18/11	05:32	06:03 06:32-06:35/3	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:18/12	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:18/12	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37 06:07-06:18/11		06:07 06:36-06:37/1	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	103	39	145	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: EAM_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:23/1	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:23/4	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52 06:18-06:24/6	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50 06:17-06:24/7	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:24/8	05:29	05:52 06:27-06:29/2	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:22/8	05:29	05:53 06:25-06:31/6	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:46 06:14-06:21/7	05:30	05:55 06:24-06:32/8	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45 06:16-06:20/4	05:30	05:56 06:25-06:33/8	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57 06:26-06:33/7	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59 06:28-06:34/6	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00 06:29-06:34/5	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:34/2	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:34/1	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	49	0	49	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: EAM_WT03 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:28/2	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:28/3	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:27/5	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:26/5	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:31-06:35/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:37/5	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:37/4	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06 06:34-06:38/4	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:38/2	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	19	0	19	1	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: EAM_WT05 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:40
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:39
6	08:49	08:16	07:21	07:12	06:11	05:32	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	247
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:50	08:24		07:32	17:54-17:59/5	07:23		06:20		05:36	21:06-21:13/7
	16:48	17:35		18:25	17:22-17:42/20	20:17		21:06		21:51	
2	08:50	08:23		07:30	17:51-18:01/10	07:21		06:18		05:36	21:08-21:13/5
	16:49	17:36		18:27	17:23-17:41/18	20:19		21:08		21:52	
3	08:50	08:21		07:28	17:50-18:03/13	07:19		06:16		05:35	
	16:50	17:38		18:28	17:25-17:39/14	20:20		21:10		21:53	
4	08:49	08:20		07:26	17:48-18:05/17	07:17	19:54-19:57/3	06:15		05:34	
	16:51	17:40		18:30	17:28-17:36/8	20:22		21:11		21:54	
5	08:49	08:18		07:24	17:47-18:06/19	07:14	19:53-19:58/5	06:13		05:34	
	16:53	17:42		18:32		20:24		21:13		21:55	
6	08:49	08:16		07:22	17:46-18:08/22	07:12	19:52-19:59/7	06:11		05:33	
	16:54	17:44		18:33		20:25		21:14		21:56	
7	08:48	08:15		07:19	17:46-18:10/24	07:10	19:51-20:01/10	06:09		05:32	
	16:55	17:45		18:35		20:27		21:16		21:57	
8	08:48	08:13		07:17	17:45-18:10/25	07:08	19:52-20:03/11	06:08		05:32	
	16:56	17:47		18:37		20:29		21:18		21:57	
9	08:48	08:11		07:15	17:46-18:10/24	07:06	19:52-20:05/13	06:06		05:31	
	16:58	17:49		18:39		20:30		21:19		21:58	
10	08:47	08:09		07:13	17:45-18:09/24	07:03	19:53-20:06/13	06:04		05:31	
	16:59	17:51		18:40		20:32		21:21		21:59	
11	08:47	08:08		07:11	17:45-18:08/23	07:01	19:53-20:03/10	06:03		05:31	
	17:00	17:53		18:42		20:34		21:22		22:00	
12	08:46	08:06		07:08	17:46-18:07/21	06:59	19:55-20:01/6	06:01		05:30	
	17:02	17:55		18:44		20:35		21:24		22:00	
13	08:45	08:04		07:06	17:47-18:06/19	06:57		05:59		05:30	
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:45	08:02		07:04	17:48-18:04/16	06:55		05:58		05:30	
	17:05	17:58		18:47		20:39		21:27		22:02	
15	08:44	08:00		07:02	17:50-18:02/12	06:53		05:56		05:30	
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	17:27-17:34/7	06:59		06:50		05:55		05:30	
	17:08	18:02		18:50		20:42		21:30		22:03	
17	08:42	07:57	17:25-17:36/11	06:57		06:48		05:54		05:29	
	17:09	18:04		18:52		20:43		21:31		22:03	
18	08:41	07:55	17:23-17:38/15	06:55		06:46		05:52	21:02-21:03/1	05:29	
	17:11	18:05		18:54		20:45		21:33		22:04	
19	08:40	07:53	17:22-17:40/18	06:53	18:29-18:31/2	06:44		05:51	21:02-21:04/2	05:30	
	17:12	18:07		18:56		20:47		21:34		22:04	
20	08:39	07:51	17:21-17:42/21	06:50	18:29-18:32/3	06:42		05:49	21:02-21:06/4	05:30	
	17:14	18:09		18:57		20:48		21:36		22:04	
21	08:38	07:49	17:21-17:44/23	06:48	18:27-18:33/6	06:40		05:48	21:01-21:06/5	05:30	
	17:16	18:11		18:59		20:50		21:37		22:04	
22	08:37	07:47	17:20-17:46/26	06:46	18:27-18:35/8	06:38		05:47	21:01-21:07/6	05:30	
	17:17	18:12		19:01		20:52		21:38		22:05	
23	08:36	07:45	17:20-17:48/28	06:44	18:28-18:37/9	06:36		05:46	21:01-21:09/8	05:30	
	17:19	18:14		19:02		20:53		21:40		22:05	
24	08:35	07:43	17:20-17:50/30	06:41	18:28-18:38/10	06:34		05:44	21:01-21:10/9	05:30	
	17:21	18:16		19:04		20:55		21:41		22:05	
25	08:34	07:41	17:20-17:52/32	06:39	18:30-18:36/6	06:32		05:43	21:01-21:11/10	05:31	
	17:22	18:18		19:06		20:57		21:42		22:05	
26	08:32	07:39	17:20-17:51/31	06:37		06:30		05:42	21:02-21:12/10	05:31	
	17:24	18:20		19:07		20:58		21:44		22:05	
27	08:31	07:36	17:21-17:45/24	06:35		06:28		05:41	21:02-21:13/11	05:32	
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34	17:21-17:43/22	06:32		06:26		05:40	21:02-21:14/12	05:32	
	17:28	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	21:04-21:16/12	05:33	
	17:29			20:12		21:03		21:47		22:05	
30	08:27			07:28		06:22		05:38	21:04-21:15/11	05:33	
	17:31			20:14		21:05		21:48		22:05	
31	08:26			07:26				05:37	21:05-21:14/9		
	17:33			20:15				21:50			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	288		378		78		110		12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:53-20:03/10	07:45 18:25-18:46/21	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11	06:59 19:51-20:03/12	07:46 18:25-18:47/22	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:50-20:03/13	07:48 18:23-18:46/23	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02 19:49-20:00/11	07:49 18:23-18:47/24	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03 19:49-19:58/9	07:51 18:22-18:47/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05 19:48-19:55/7	07:53 18:21-18:46/25	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:07 19:48-19:54/6	07:54 18:22-18:45/23	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08 19:49-19:51/2	07:56 18:22-18:43/21	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:58 18:22-18:40/18	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:16-21:20/4	06:23	07:11	07:59 18:23-18:38/15	07:52	08:37
	22:00	21:18	20:13	19:05 18:01-18:12/11	17:06	16:38
11	05:42 21:15-21:21/6	06:24	07:13	08:01 18:24-18:36/12	07:54	08:39
	21:59	21:16	20:11	19:03 17:58-18:14/16	17:04	16:38
12	05:43 21:14-21:22/8	06:26	07:14	08:02 18:26-18:34/8	07:56	08:40
	21:58	21:15	20:09	19:01 17:57-18:16/19	17:03	16:38
13	05:44 21:13-21:23/10	06:27	07:16	08:04 18:29-18:31/2	07:57	08:41
	21:57	21:13	20:06	18:59 17:54-18:16/22	17:01	16:38
14	05:45 21:13-21:24/11	06:29	07:18	08:06 17:53-18:17/24	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07 17:53-18:22/29	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09 17:52-18:23/31	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11 17:51-18:22/31	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13 17:51-18:20/29	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14 17:51-18:18/27	08:08	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16 17:52-18:16/24	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18 17:51-18:14/23	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19 17:52-18:12/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21 17:53-18:10/17	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 21:11-21:14/3	06:45	07:33 19:13-19:15/2	08:23 17:54-18:08/14	08:16	08:48
	21:45	20:51	19:41	18:36	16:48	16:41
25	05:59 21:12-21:14/2	06:46	07:35	07:24 16:56-17:06/10	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 16:59-17:04/5	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:32-18:41/9	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:30-18:44/14	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:27-18:45/18	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	125	6	157	591	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 17:00-17:05/5	07:32 17:57-17:59/2	07:23	06:20 20:37-20:38/1	05:36
	16:48	17:35 16:38-16:50/12	18:25	20:17	21:06	21:51
2	08:50	08:23 16:59-17:07/8	07:30 17:57-18:01/4	07:21	06:18 20:38-20:40/2	05:36
	16:49	17:36 16:40-16:48/8	18:27	20:19	21:08	21:52
3	08:50	08:21 16:58-17:09/11	07:28 17:57-18:03/6	07:19	06:16 20:39-20:41/2	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49	08:20 16:58-17:11/13	07:26 17:58-18:05/7	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49	08:18 16:58-17:13/15	07:24 17:58-18:06/8	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49	08:16 16:57-17:15/18	07:22 18:00-18:05/5	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48	08:15 16:57-17:16/19	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:57
8	08:48	08:13 16:58-17:19/21	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:18	21:57
9	08:48	08:11 16:59-17:20/21	07:15	07:06	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09 16:59-17:17/18	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47	08:08 17:00-17:16/16	07:11	07:01	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46	08:06 17:01-17:15/14	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45	08:04 17:03-17:13/10	07:06 18:17-18:20/3	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45	08:02 17:07-17:09/2	07:04 18:16-18:22/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:39	21:27	22:02
15	08:44	08:00	07:02 18:16-18:24/8	06:53	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:33-16:35/2	07:58	06:59 18:16-18:26/10	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:32-16:37/5	07:57	06:57 18:16-18:27/11	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:32-16:39/7	07:55	06:55 18:17-18:28/11	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:32-16:41/9	07:53	06:53 18:19-18:26/7	06:44 20:17-20:20/3	05:51	05:30
	17:12	18:07	18:56	20:47	21:34	22:04
20	08:39 16:32-16:43/11	07:51	06:50	06:42 20:17-20:22/5	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:31-16:44/13	07:49	06:48	06:40 20:16-20:23/7	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:31-16:46/15	07:47	06:46	06:38 20:16-20:25/9	05:47	05:30
	17:17	18:12	19:01	20:52	21:38	22:05
23	08:36 16:31-16:48/17	07:45	06:44	06:36 20:16-20:26/10	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:32-16:50/18	07:43	06:41	06:34 20:16-20:28/12	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:31-16:51/20	07:41	06:39	06:32 20:17-20:29/12	05:43	05:31
	17:22	18:18	19:06	20:57	21:42	22:05
26	08:32 16:32-16:53/21	07:39	06:37	06:30 20:18-20:27/9	05:42	05:31
	17:24	18:20	19:07	20:58	21:44	22:05
27	08:31 16:32-16:52/20	07:36	06:35	06:28 20:21-20:24/3	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 16:33-16:53/20	07:34	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 16:33-16:52/19		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:35-16:52/17		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 17:01-17:03/2		07:26		05:37	
	17:33 16:36-16:51/15		20:15		21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	231	211	88	70	5	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:57-18:58/1	07:37	16:29-16:47/18	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46		07:38	16:28-16:50/22	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:28-16:48/20	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:27-16:46/19	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:27-16:44/17	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17		07:05		07:53		07:45	16:28-16:42/14	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18		07:07		07:54		07:47	16:28-16:41/13	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20		07:08		07:56	18:35-18:42/7	07:49	16:29-16:39/10	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:50-20:51/1	07:10		07:58	18:32-18:40/8	07:51	16:30-16:38/8	08:36
	22:00	21:20		20:16		19:08		17:07	16:10-16:19/9	16:39
10	05:41	06:23	20:48-20:50/2	07:11		07:59	18:32-18:38/6	07:52	16:31-16:36/5	08:37
	22:00	21:18		20:13		19:05		17:06	16:09-16:21/12	16:38
11	05:42	06:24	20:46-20:48/2	07:13		08:01	18:31-18:36/5	07:54	16:33-16:35/2	08:38
	21:59	21:16		20:11		19:03		17:04	16:07-16:23/16	16:38
12	05:43	06:26		07:14		08:02	18:30-18:33/3	07:56	16:06-16:23/17	08:40
	21:58	21:15		20:09		19:01		17:03		16:38
13	05:44	06:27		07:16		08:04		07:57	16:05-16:24/19	08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29		07:18		08:06		07:59	16:05-16:24/19	08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30		07:19		08:07		08:01	16:05-16:25/20	08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:27-20:32/5	07:21		08:09		08:03	16:05-16:26/21	08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:24-20:34/10	07:22		08:11		08:04	16:05-16:25/20	08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:23-20:35/12	07:24		08:13		08:06	16:06-16:24/18	08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:22-20:33/11	07:25		08:14		08:08	16:05-16:22/17	08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:22-20:32/10	07:27		08:16		08:09	16:06-16:21/15	08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:21-20:29/8	07:29		08:18		08:11	16:07-16:20/13	08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:21-20:28/7	07:30		08:19		08:12	16:08-16:19/11	08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:20-20:25/5	07:32		08:21		08:14	16:08-16:17/9	08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:21-20:24/3	07:33	19:04-19:08/4	08:23		08:16	16:09-16:16/7	08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46		07:35	19:00-19:10/10	07:24		08:17	16:10-16:15/5	08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48		07:37	18:59-19:10/11	07:26		08:19	16:11-16:14/3	08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49		07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51		07:40	18:57-19:05/8	07:30	16:35-16:40/5	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:32-16:43/11	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:56-19:00/4	07:33	16:30-16:45/15	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:29-16:46/17			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	76		53		78		399		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	07:45-07:51/6	06:20		05:36	06:24-06:41/17
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21	07:46-07:48/2	06:18		05:35	06:25-06:41/16
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	06:25-06:40/15
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:14		05:34	06:25-06:40/15
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	06:27-06:40/13
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12	07:34-07:36/2	06:11		05:33	06:27-06:39/12
	16:54	17:43	18:33		20:25		21:14		21:56	
7	08:48	08:14	07:19	07:44-07:53/9	07:10	07:32-07:37/5	06:09		05:32	06:28-06:39/11
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:42-07:55/13	07:08	07:30-07:36/6	06:07		05:32	06:00-06:02/2
	16:56	17:47	18:37		20:28		21:17		21:57	06:28-06:38/10
9	08:47	08:11	07:15	07:41-07:56/15	07:05	07:28-07:35/7	06:06		05:31	06:00-06:03/3
	16:57	17:49	18:38		20:30		21:19		21:58	06:29-06:38/9
10	08:47	08:09	07:13	07:39-07:56/17	07:03	07:30-07:33/3	06:04		05:31	06:00-06:04/4
	16:59	17:51	18:40		20:32		21:21		21:59	06:31-06:37/6
11	08:46	08:08	07:10	07:39-07:56/17	07:01		06:02		05:30	05:59-06:04/5
	17:00	17:53	18:42		20:33		21:22		22:00	06:31-06:36/5
12	08:46	08:06	07:08	07:39-07:56/17	06:59		06:01		05:30	05:59-06:05/6
	17:02	17:54	18:44		20:35		21:24		22:00	06:33-06:35/2
13	08:45	08:04	07:06	07:38-07:55/17	06:57		05:59		05:30	05:59-06:06/7
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:38-07:54/16	06:54		05:58	06:29-06:34/5	05:30	05:59-06:06/7
	17:04	17:58	18:47		20:38		21:27		22:01	
15	08:44	08:00	07:01	07:39-07:53/14	06:52		05:56	06:27-06:37/10	05:29	05:59-06:07/8
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:41-07:51/10	06:50		05:55	06:26-06:38/12	05:29	05:59-06:07/8
	17:07	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:44-07:46/2	06:48		05:53	06:24-06:39/15	05:29	05:59-06:07/8
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55		06:46		05:52	06:24-06:40/16	05:29	05:59-06:07/8
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:52		06:44		05:51	06:23-06:40/17	05:29	05:59-06:08/9
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50		06:42		05:49	06:23-06:41/18	05:29	05:59-06:08/9
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48		06:40		05:48	06:22-06:41/19	05:30	05:59-06:08/9
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	06:22-06:41/19	05:30	06:00-06:09/9
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43		06:36		05:45	06:22-06:41/19	05:30	06:00-06:09/9
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:43	06:41		06:34		05:44	06:22-06:42/20	05:30	06:00-06:09/9
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39		06:32		05:43	06:22-06:42/20	05:31	06:01-06:09/8
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:22-06:42/20	05:31	06:01-06:09/8
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:22-06:42/20	05:31	06:01-06:09/8
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:22-06:41/19	05:32	06:02-06:09/7
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	07:52-07:53/1	06:24		05:39	06:22-06:41/19	05:32	06:02-06:09/7
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	07:50-07:53/3	06:22		05:38	06:23-06:42/19	05:33	06:03-06:09/6
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	07:48-07:53/5			05:37	06:24-06:41/17		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	156		31		304		295	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:10/6	06:09	06:57	07:44 08:17-08:35/18	07:36	08:26
	22:04 06:37-06:41/4	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:09/5	06:10	06:59 07:28-07:31/3	07:46 08:17-08:35/18	07:38	08:27
	22:04 06:35-06:41/6	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:09/4	06:12	07:00 07:26-07:33/7	07:48 08:17-08:34/17	07:40	08:29
	22:04 06:35-06:43/8	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:09/3	06:13	07:02 07:27-07:33/6	07:49 08:17-08:33/16	07:42	08:30
	22:03 06:35-06:44/9	21:29	20:27	19:19	17:16	16:40
5	05:36 06:06-06:07/1	06:15	07:03 07:29-07:34/5	07:51 08:18-08:32/14	07:43	08:31
	22:03 06:33-06:44/11	21:27	20:24	19:16	17:14	16:40
6	05:37 06:33-06:45/12	06:16	07:05 07:30-07:33/3	07:52 08:19-08:30/11	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:33-06:46/13	06:18	07:06	07:54 08:21-08:28/7	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:33-06:47/14	06:19	07:08	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:33-06:48/15	06:21	07:10	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:33-06:48/15	06:23	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:32-06:49/17	06:24	07:13 07:38-07:44/6	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:32-06:49/17	06:26	07:14 07:39-07:44/5	08:02	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:32-06:50/18	06:27	07:16 07:41-07:44/3	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:32-06:50/18	06:29	07:17 07:42-07:43/1	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 06:32-06:51/19	06:30	07:19	08:07	08:01	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:32-06:51/19	06:32	07:21	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:31-06:51/20	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:31-06:51/20	06:35	07:24	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51 06:31-06:51/20	06:37	07:25	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:31-06:51/20	06:38	07:27	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 06:32-06:52/20	06:40	07:28	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 06:32-06:51/19	06:41	07:30	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:32-06:51/19	06:43	07:32	08:21	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:33-06:50/17	06:44	07:33	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:34-06:51/17	06:46	07:35	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:34-06:50/16	06:48	07:36	07:26	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02 06:35-06:49/14	06:49	07:38 08:24-08:32/8	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:37-06:48/11	06:51	07:40 08:21-08:33/12	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:38-06:46/8	06:52	07:41 08:20-08:34/14	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43 08:18-08:34/16	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	455	0	89	101	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May	June	
1	08:50	08:24		07:32	08:26-08:44/18	07:23		06:20	05:36	
	16:48	17:35		18:25		20:17		21:06	21:51	
2	08:50	08:22		07:30	08:28-08:42/14	07:21	07:43-07:46/3	06:18	05:35	
	16:49	17:36		18:26		20:19		21:08	21:52	
3	08:49	08:21		07:28	08:30-08:40/10	07:19	07:41-07:47/6	06:16	05:35	
	16:50	17:38		18:28		20:20		21:09	21:53	
4	08:49	08:19		07:26		07:16	07:39-07:47/8	06:14	05:34	
	16:51	17:40		18:30		20:22		21:11	21:54	
5	08:49	08:18		07:24		07:14	07:37-07:47/10	06:13	05:33	
	16:52	17:42		18:32		20:24		21:13	21:55	
6	08:49	08:16		07:21		07:12	07:35-07:46/11	06:11	05:33	
	16:54	17:44		18:33		20:25		21:14	21:56	
7	08:48	08:14		07:19		07:10	07:36-07:45/9	06:09	05:32	
	16:55	17:45		18:35		20:27		21:16	21:56	
8	08:48	08:13		07:17		07:08	07:37-07:43/6	06:07	05:32	06:24-06:27/3
	16:56	17:47		18:37		20:28		21:17	21:57	
9	08:47	08:11		07:15		07:05		06:06	05:31	06:22-06:30/8
	16:57	17:49		18:38		20:30		21:19	21:58	
10	08:47	08:09		07:13		07:03		06:04	05:31	06:22-06:31/9
	16:59	17:51		18:40		20:32		21:21	21:59	
11	08:46	08:08		07:10		07:01		06:02	05:30	06:20-06:32/12
	17:00	17:53		18:42		20:33		21:22	22:00	
12	08:46	08:06		07:08		06:59		06:01	05:30	06:20-06:33/13
	17:02	17:54		18:44		20:35		21:24	22:00	
13	08:45	08:04		07:06		06:57		05:59	05:30	06:20-06:34/14
	17:03	17:56		18:45		20:37		21:25	22:01	
14	08:44	08:02		07:04		06:54		05:58	05:30	06:20-06:34/14
	17:04	17:58		18:47		20:38		21:27	22:02	
15	08:44	08:00		07:01		06:52		05:56	05:29	06:20-06:35/15
	17:06	18:00		18:49		20:40		21:28	22:02	
16	08:43	07:58	08:34-08:40/6	06:59		06:50		05:55	05:29	06:20-06:36/16
	17:08	18:02		18:50		20:42		21:30	22:03	
17	08:42	07:56	08:31-08:43/12	06:57		06:48		05:53	05:29	06:20-06:36/16
	17:09	18:03		18:52		20:43		21:31	22:03	
18	08:41	07:55	08:29-08:45/16	06:55		06:46		05:52	05:29	06:20-06:36/16
	17:11	18:05		18:54		20:45		21:33	22:03	
19	08:40	07:53	08:28-08:46/18	06:52		06:44		05:51	05:29	06:20-06:37/17
	17:12	18:07		18:55		20:47		21:34	22:04	
20	08:39	07:51	08:26-08:47/21	06:50		06:42		05:49	05:29	06:20-06:37/17
	17:14	18:09		18:57		20:48		21:35	22:04	
21	08:38	07:49	08:26-08:48/22	06:48		06:40		05:48	05:30	06:20-06:37/17
	17:16	18:11		18:59		20:50		21:37	22:04	
22	08:37	07:47	08:25-08:48/23	06:46		06:38		05:47	05:30	06:21-06:38/17
	17:17	18:12		19:00		20:52		21:38	22:05	
23	08:36	07:45	08:25-08:49/24	06:43		06:36		05:45	05:30	06:21-06:38/17
	17:19	18:14		19:02		20:53		21:39	22:05	
24	08:35	07:43	08:25-08:49/24	06:41	07:04-07:05/1	06:34		05:44	05:30	06:21-06:38/17
	17:21	18:16		19:04		20:55		21:41	22:05	
25	08:34	07:40	08:25-08:48/23	06:39	07:01-07:05/4	06:32		05:43	05:31	06:21-06:37/16
	17:22	18:18		19:05		20:56		21:42	22:05	
26	08:32	07:38	08:25-08:48/23	06:37	06:59-07:05/6	06:30		05:42	05:31	06:22-06:38/16
	17:24	18:19		19:07		20:58		21:43	22:05	
27	08:31	07:36	08:26-08:47/21	06:34	06:57-07:05/8	06:28		05:41	05:31	06:22-06:37/15
	17:26	18:21		19:09		21:00		21:45	22:05	
28	08:30	07:34	08:25-08:46/21	06:32	06:54-07:04/10	06:26		05:40	05:32	06:23-06:38/15
	17:27	18:23		19:10		21:01		21:46	22:05	
29	08:28			07:30	07:55-08:03/8	06:24		05:39	05:32	06:23-06:37/14
	17:29			20:12		21:03		21:47	22:05	
30	08:27			07:28	07:58-08:00/2	06:22		05:38	05:33	06:24-06:37/13
	17:31			20:14		21:05		21:48	22:04	
31	08:25			07:25				05:37		
	17:33			20:15				21:49		
Potential sun hours	262	279		367		415		482	495	
Sum of minutes with flicker	0	254		81		53		0	327	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:27-06:36/9	06:12	07:00	07:48	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:29-06:35/6	06:13	07:02 07:34-07:40/6	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:36	06:15	07:03 07:33-07:42/9	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05 07:31-07:42/11	07:52	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06 07:32-07:42/10	07:54	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39	06:19	07:08 07:33-07:41/8	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 07:35-07:41/6	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41	06:23	07:11 07:36-07:39/3	07:59 09:07-09:11/4	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 09:03-09:15/12	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 09:00-09:16/16	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:59-09:18/19	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 07:46-07:53/7	08:06 08:58-09:19/21	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:45-07:54/9	08:07 08:58-09:20/22	08:01	08:42
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 07:45-07:54/9	08:09 08:56-09:19/23	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 07:47-07:54/7	08:11 08:56-09:20/24	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 07:49-07:54/5	08:12 08:56-09:20/24	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37	07:25 07:50-07:52/2	08:14 08:56-09:20/24	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 08:57-09:20/23	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 08:56-09:18/22	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:57-09:17/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:58-09:16/18	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:00-09:15/15	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:02-08:13/11	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:07-08:09/2	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	37	0	92	300	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April	May		June	
1	08:50	08:24		07:32	07:59-08:09/10	07:23	06:20		05:36	18:54-19:56/62
	16:48	17:35		18:25		20:17	21:06		21:51	
2	08:50	08:23		07:30	07:57-08:11/14	07:21	06:18		05:36	18:55-19:57/62
	16:49	17:36		18:26		20:19	21:08		21:52	
3	08:49	08:21		07:28	07:56-08:12/16	07:19	06:16		05:35	18:54-19:57/63
	16:50	17:38		18:28		20:20	21:09		21:53	
4	08:49	08:19		07:26	07:55-08:13/18	07:16	06:15		05:34	18:54-19:58/64
	16:51	17:40		18:30		20:22	21:11		21:54	
5	08:49	08:18		07:24	07:54-08:12/18	07:14	06:13		05:33	18:54-19:59/65
	16:52	17:42		18:32		20:24	21:13		21:55	
6	08:49	08:16		07:21	07:53-08:12/19	07:12	06:11		05:33	18:54-19:59/65
	16:54	17:44		18:33		20:25	21:14		21:56	
7	08:48	08:15		07:19	07:53-08:12/19	07:10	06:09		05:32	18:54-20:00/66
	16:55	17:45		18:35		20:27	21:16		21:56	
8	08:48	08:13		07:17	07:54-08:12/18	07:08	06:08		05:32	18:53-20:00/67
	16:56	17:47		18:37		20:29	21:17		21:57	
9	08:48	08:11		07:15	07:55-08:11/16	07:05	06:06		05:31	18:54-20:00/66
	16:57	17:49		18:39		20:30	21:19		21:58	
10	08:47	08:09		07:13	07:55-08:08/13	07:03	06:04		05:31	18:54-20:01/67
	16:59	17:51		18:40		20:32	21:21		21:59	
11	08:46	08:08		07:10	07:56-08:06/10	07:01	06:03		05:30	18:53-20:01/68
	17:00	17:53		18:42		20:33	21:22		22:00	
12	08:46	08:06		07:08	08:01-08:02/1	06:59	06:01		05:30	18:54-20:01/67
	17:02	17:54		18:44		20:35	21:24		22:00	
13	08:45	08:04		07:06		06:57	05:59		05:30	18:54-20:02/68
	17:03	17:56		18:45		20:37	21:25		22:01	
14	08:44	08:02		07:04	07:35-07:45/10	06:55	05:58	19:16-19:30/14	05:30	18:54-20:02/68
	17:05	17:58		18:47		20:38	21:27		22:02	
15	08:44	08:00		07:02	07:32-07:47/15	06:52	05:56	19:12-19:35/23	05:30	18:54-20:03/69
	17:06	18:00		18:49		20:40	21:28		22:02	
16	08:43	07:58		06:59	07:31-07:48/17	06:50	05:55	19:10-19:38/28	05:29	18:54-20:03/69
	17:08	18:02		18:50		20:42	21:30		22:03	
17	08:42	07:56		06:57	07:29-07:48/19	06:48	05:53	19:07-19:39/32	05:29	18:55-20:03/68
	17:09	18:03		18:52		20:43	21:31		22:03	
18	08:41	07:55		06:55	07:28-07:49/21	06:46	05:52	19:05-19:41/36	05:29	18:55-20:04/69
	17:11	18:05		18:54		20:45	21:33		22:03	
19	08:40	07:53		06:53	07:27-07:49/22	06:44	05:51	19:04-19:43/39	05:29	18:55-20:04/69
	17:12	18:07		18:55		20:47	21:34		22:04	
20	08:39	07:51		06:50	07:27-07:49/22	06:42	05:49	19:03-19:45/42	05:29	18:55-20:04/69
	17:14	18:09		18:57		20:48	21:35		22:04	
21	08:38	07:49		06:48	07:26-07:48/22	06:40	05:48	19:01-19:45/44	05:30	18:55-20:04/69
	17:16	18:11		18:59		20:50	21:37		22:04	
22	08:37	07:47		06:46	07:26-07:48/22	06:38	05:47	19:00-19:47/47	05:30	18:56-20:05/69
	17:17	18:12		19:00		20:52	21:38		22:05	
23	08:36	07:45		06:44	07:27-07:47/20	06:36	05:45	18:59-19:48/49	05:30	18:56-20:05/69
	17:19	18:14		19:02		20:53	21:40		22:05	
24	08:35	07:43		06:41	07:28-07:46/18	06:34	05:44	18:58-19:49/51	05:30	18:56-20:05/69
	17:21	18:16		19:04		20:55	21:41		22:05	
25	08:34	07:41		06:39	07:28-07:43/15	06:32	05:43	18:58-19:50/52	05:31	18:56-20:05/69
	17:22	18:18		19:05		20:56	21:42		22:05	
26	08:32	07:38		06:37	07:30-07:41/11	06:30	05:42	18:57-19:51/54	05:31	18:57-20:05/68
	17:24	18:19		19:07		20:58	21:43		22:05	
27	08:31	07:36		06:34	07:34-07:36/2	06:28	05:41	18:57-19:52/55	05:31	18:56-20:05/69
	17:26	18:21		19:09		21:00	21:45		22:05	
28	08:30	07:34	08:03-08:05/2	06:32		06:26	05:40	18:56-19:52/56	05:32	18:57-20:06/69
	17:27	18:23		19:10		21:01	21:46		22:05	
29	08:28			07:30		06:24	05:39	18:55-19:53/58	05:32	18:57-20:05/68
	17:29			20:12		21:03	21:47		22:05	
30	08:27			07:28		06:22	05:38	18:56-19:55/59	05:33	18:58-20:06/68
	17:31			20:14		21:05	21:48		22:04	
31	08:25			07:25			05:37	18:55-19:55/60		
	17:33			20:15			21:49			
Potential sun hours	262	279		367		415	482		495	
Sum of minutes with flicker	0	2		408		0	799		2018	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:58-20:06/68	06:09	06:57	07:44	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 18:58-20:05/67	06:10	06:59	07:46 08:36-08:44/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 18:59-20:06/67	06:12	07:00	07:48 08:33-08:45/12	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 18:59-20:06/67	06:13	07:02	07:49 08:32-08:47/15	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 18:59-20:05/66	06:15	07:03	07:51 08:31-08:48/17	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 19:00-20:05/65	06:16	07:05	07:53 08:30-08:48/18	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 19:00-20:05/65	06:18	07:06	07:54 08:29-08:48/19	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 19:01-20:05/64	06:20	07:08	07:56 08:29-08:48/19	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 19:02-20:05/63	06:21	07:10	07:57 08:29-08:47/18	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 19:02-20:05/63	06:23	07:11	07:59 08:29-08:46/17	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 19:03-20:04/61	06:24	07:13	08:01 08:30-08:46/16	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 19:03-20:04/61	06:26	07:14	08:02 08:32-08:44/12	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 19:04-20:04/60	06:27	07:16	08:04 08:33-08:41/8	07:57	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45 19:04-20:03/59	06:29	07:17	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 19:05-20:02/57	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47 19:06-20:02/56	06:32	07:21	08:09	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49 19:06-20:01/55	06:33	07:22 08:19-08:29/10	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 19:07-20:00/53	06:35	07:24 08:16-08:30/14	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51 19:08-19:59/51	06:37	07:25 08:15-08:32/17	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 19:08-19:58/50	06:38	07:27 08:14-08:33/19	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 19:10-19:58/48	06:40	07:28 08:12-08:33/21	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 19:11-19:57/46	06:41	07:30 08:12-08:34/22	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 19:12-19:55/43	06:43	07:32 08:11-08:33/22	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 19:13-19:54/41	06:44	07:33 08:11-08:33/22	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 19:15-19:53/38	06:46	07:35 08:10-08:32/22	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 19:16-19:51/35	06:48	07:36 08:11-08:31/20	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 19:18-19:49/31	06:49	07:38 08:12-08:30/18	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 19:21-19:47/26	06:51	07:40 08:12-08:28/16	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 19:24-19:44/20	06:52	07:41 08:15-08:27/12	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 19:28-19:38/10	06:54	07:43 08:17-08:22/5	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	1556	0	240	179	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:11-15:27/16 16:48	08:24 17:35	07:32 08:32-09:09/37 18:25	07:23 19:02-19:30/28 20:17	06:20 21:06	05:36 06:04-06:06/2 21:51
2	08:50 15:12-15:27/15 16:49	08:23 17:36	07:30 08:32-09:09/37 18:26	07:21 19:02-19:31/29 20:19	06:18 21:08	05:36 06:04-06:07/3 21:52
3	08:49 15:14-15:27/13 16:50	08:21 09:07-09:09/2 17:38	07:28 08:32-09:09/37 18:28	07:19 19:01-19:31/30 20:20	06:16 21:09	05:35 06:03-06:06/3 21:53
4	08:49 15:14-15:27/13 16:51	08:19 09:03-09:14/11 17:40	07:26 08:32-09:09/37 18:30	07:17 19:01-19:31/30 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 15:16-15:27/11 16:52	08:18 09:01-09:16/15 17:42	07:24 08:31-09:07/36 18:32	07:14 19:01-19:31/30 20:24	06:13 21:13	05:33 06:02-06:06/4 21:55
6	08:49 15:18-15:25/7 16:54	08:16 08:59-09:17/18 17:44	07:21 08:31-09:07/36 18:33	07:12 19:01-19:30/29 20:25	06:11 21:14	05:33 06:01-06:05/4 21:56
7	08:48 15:21-15:24/3 16:55	08:15 08:57-09:18/21 17:45	07:19 08:32-09:06/34 18:35	07:10 19:01-19:29/28 20:27	06:09 21:16	05:32 06:01-06:05/4 21:56
8	08:48 16:56	08:13 08:57-09:20/23 17:47	07:17 08:32-09:06/34 18:37	07:08 19:02-19:28/26 20:29	06:08 21:17	05:32 06:02-06:05/3 21:57
9	08:48 16:57	08:11 08:56-09:21/25 17:49	07:15 08:33-09:05/32 18:39	07:05 19:02-19:28/26 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 08:55-09:21/26 17:51	07:13 08:33-09:02/29 18:40	07:03 19:03-19:26/23 20:32	06:04 21:21	05:31 21:59
11	08:46 17:00	08:08 08:55-09:22/27 17:53	07:10 08:34-09:01/27 18:42	07:01 19:04-19:24/20 20:33	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 08:54-09:22/28 17:54	07:08 08:36-08:59/23 18:44	06:59 19:06-19:22/16 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 08:54-09:22/28 17:56	07:06 08:38-08:56/18 18:45	06:57 19:08-19:20/12 20:37	05:59 21:25	05:30 22:01
14	08:44 17:05	08:02 08:54-09:22/28 17:58	07:04 08:40-08:52/12 18:47	06:55 20:38	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 08:54-09:22/28 18:00	07:02 18:49	06:52 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 08:54-09:21/27 18:02	06:59 18:50	06:50 20:42	05:55 21:30	05:29 22:03
17	08:42 17:09	07:56 08:55-09:21/26 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03
18	08:41 17:11	07:55 08:55-09:20/25 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:29 22:03
19	08:40 17:12	07:53 08:51-08:53/2 18:07 08:56-09:19/23	06:53 18:55	06:44 20:47	05:51 21:34	05:29 22:04
20	08:39 17:14	07:51 08:45-09:17/32 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04
21	08:38 17:16	07:49 08:42-09:16/34 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04
22	08:37 17:17	07:47 08:40-09:13/33 18:12	06:46 19:00	06:38 20:52	05:47 21:38	05:30 22:05
23	08:36 17:19	07:45 08:38-09:09/31 18:14	06:44 19:02	06:36 20:53	05:46 21:40	05:30 22:05
24	08:35 17:21	07:43 08:37-09:06/29 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05
25	08:34 17:22	07:41 08:36-09:07/31 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05
26	08:32 17:24	07:38 08:35-09:08/33 18:19	06:37 18:15-18:22/7 19:07	06:30 20:58	05:42 21:43	05:31 22:05
27	08:31 17:26	07:36 08:34-09:09/35 18:21	06:34 18:11-18:25/14 19:09	06:28 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 08:32-09:08/36 18:23	06:32 18:08-18:26/18 19:10	06:26 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 19:06-19:28/22 20:12	06:24 21:03	05:39 21:47	05:33 22:05
30	08:27 17:31		07:28 19:05-19:30/25 20:14	06:22 21:05	05:38 21:48	05:33 22:04
31	08:26 17:33		07:25 19:04-19:31/27 20:15		05:37 06:05-06:06/1 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	78	677	542	327	1	27

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:04-19:24/20	07:44 09:15-09:36/21	07:37 08:25-08:51/26	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:10	06:59 19:01-19:24/23	07:46 09:14-09:39/25	07:38 08:26-08:50/24	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:00-19:26/26	07:48 09:11-09:39/28	07:40 08:27-08:50/23	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02 18:59-19:25/26	07:49 09:10-09:41/31	07:42 08:27-08:48/21	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:11/4	06:15	07:03 18:58-19:26/28	07:51 09:09-09:42/33	07:44 08:29-08:47/18	08:31 15:06-15:09/3
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:11/4	06:16	07:05 18:57-19:26/29	07:53 09:08-09:42/34	07:45 08:31-08:46/15	08:33 15:04-15:11/7
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:12/4	06:18	07:06 18:57-19:26/29	07:54 09:07-09:43/36	07:47 08:33-08:44/11	08:34 15:04-15:14/10
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 18:55-19:25/30	07:56 09:07-09:43/36	07:49	08:35 15:03-15:15/12
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 18:56-19:25/29	07:57 09:06-09:43/37	07:50	08:36 15:02-15:16/14
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:14/3	06:23	07:11 18:55-19:24/29	07:59 09:06-09:43/37	07:52	08:37 15:02-15:16/14
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:14/2	06:24	07:13 18:55-19:23/28	08:01 09:06-09:43/37	07:54	08:38 15:01-15:17/16
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:15/2	06:26	07:14 18:55-19:22/27	08:02 09:06-09:43/37	07:56	08:39 15:01-15:18/17
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:15/1	06:27	07:16 18:56-19:21/25	08:04 09:05-09:42/37	07:57	08:40 15:01-15:19/18
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 18:56-19:19/23	08:06 09:06-09:41/35	07:59	08:41 15:02-15:19/17
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 18:58-19:17/19	08:07 09:07-09:41/34	08:01	08:42 15:02-15:20/18
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 18:59-19:14/15	08:09 09:06-09:39/33	08:02	08:43 15:02-15:21/19
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:33	07:22 19:02-19:11/9	08:11 09:07-09:38/31	08:04	08:44 15:03-15:22/19
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 09:09-09:37/28	08:06	08:45 15:03-15:22/19
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14 09:10-09:42/32	08:07	08:45 15:03-15:23/20
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 09:12-09:45/33	08:09	08:46 15:04-15:23/19
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:18 09:13-09:47/34	08:11	08:47 15:04-15:23/19
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 09:17-09:48/31	08:12	08:47 15:05-15:24/19
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 09:26-09:50/24	08:14	08:48 15:05-15:24/19
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:25-09:51/26	08:16	08:48 15:05-15:24/19
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:25-08:51/26	08:17	08:48 15:06-15:26/20
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:25-08:52/27	08:19	08:49 15:07-15:26/19
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 08:23-08:51/28	08:20	08:49 15:07-15:26/19
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 08:23-08:51/28	08:22	08:49 15:08-15:26/18
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 09:22-09:31/9	07:31 08:24-08:52/28	08:23	08:49 15:08-15:26/18
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:09-19:21/12	07:43 09:17-09:34/17	07:33 08:24-08:52/28	08:25	08:50 15:09-15:27/18
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55 19:05-19:22/17		07:35 08:24-08:51/27		08:50 15:10-15:27/17
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	27	29	441	962	138	447

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:49-16:06/17	08:24	07:32	07:23	06:20 19:47-20:12/25	05:36
	16:48 11:36-12:20/44	17:35	18:25	20:17	21:06	21:51
2	08:50 15:50-16:06/16	08:23	07:30	07:21	06:18 19:47-20:11/24	05:36 06:04-06:06/2
	16:49 11:37-12:21/44	17:36	18:26	20:19	21:08	21:52
3	08:49 15:51-16:07/16	08:21	07:28	07:19	06:16 19:47-20:10/23	05:35 06:03-06:06/3
	16:50 11:38-12:21/43	17:38	18:28	20:20	21:10	21:53
4	08:49 15:51-16:07/16	08:19	07:26	07:17	06:15 19:49-20:10/21	05:34 06:02-06:06/4
	16:51 11:37-12:21/44	17:40	18:30	20:22	21:11	21:54
5	08:49 15:52-16:07/15	08:18	07:24	07:14	06:13 19:50-20:09/19	05:33 06:02-06:06/4
	16:52 11:38-12:22/44	17:42	18:32	20:24	21:13	21:55
6	08:49 15:52-16:07/15	08:16	07:21 17:59-18:02/3	07:12	06:11 19:50-20:07/17	05:33 06:01-06:06/5
	16:54 11:39-12:21/42	17:44	18:33	20:25	21:14	21:56
7	08:48 15:53-16:08/15	08:15	07:19 17:56-18:06/10	07:10	06:09 19:53-20:06/13	05:32 06:01-06:07/6
	16:55 11:40-12:22/42	17:45	18:35	20:27	21:16	21:56
8	08:48 15:53-16:07/14	08:13	07:17 17:54-18:08/14	07:08	06:08 19:54-20:04/10	05:32 06:01-06:07/6
	16:56 11:40-12:22/42	17:47	18:37	20:29	21:17	21:57
9	08:48 15:55-16:08/13	08:11	07:15 17:52-18:08/16	07:05	06:06	05:31 06:00-06:07/7
	16:58 11:41-12:22/41	17:49	18:39	20:30	21:19	21:58
10	08:47 15:55-16:08/13	08:09	07:13 17:51-18:09/18	07:03	06:04	05:31 06:00-06:07/7
	16:59 11:42-12:22/40	17:51	18:40	20:32	21:21	21:59
11	08:46 15:56-16:07/11	08:08	07:10 17:51-18:09/18	07:01	06:03	05:31 06:00-06:08/8
	17:00 11:42-12:21/39	17:53	18:42	20:34	21:22	22:00
12	08:46 15:58-16:07/9	08:06	07:08 17:51-18:09/18	06:59	06:01	05:30 05:59-06:07/8
	17:02 11:44-12:22/38	17:54	18:44	20:35	21:24	22:00
13	08:45 16:00-16:06/6	08:04	07:06 17:50-18:08/18	06:57	05:59	05:30 05:59-06:07/8
	17:03 11:45-12:22/37	17:56	18:45	20:37	21:25	22:01
14	08:44 11:46-12:21/35	08:02	07:04 17:51-18:08/17	06:55	05:58	05:30 05:59-06:08/9
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:47-12:21/34	08:00	07:02 17:52-18:07/15	06:52	05:56	05:30 05:59-06:08/9
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:48-12:20/32	07:58	06:59 17:53-18:06/13	06:50	05:55	05:29 05:59-06:08/9
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:49-12:19/30	07:57	06:57 17:55-18:02/7	06:48	05:53	05:29 05:59-06:08/9
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:51-12:18/27	07:55	06:55	06:46	05:52	05:29 05:59-06:08/9
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:53-12:17/24	07:53	06:53	06:44 19:56-20:06/10	05:51	05:29 05:59-06:08/9
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:55-12:16/21	07:51	06:50	06:42 19:53-20:09/16	05:49	05:30 05:59-06:08/9
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:57-12:12/15	07:49	06:48	06:40 19:52-20:10/18	05:48	05:30 05:59-06:08/9
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 12:03-12:05/2	07:47	06:46	06:38 19:50-20:11/21	05:47	05:30 06:00-06:09/9
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:44	06:36 19:49-20:12/23	05:46	05:30 06:00-06:09/9
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41	06:34 19:48-20:13/25	05:44	05:30 06:00-06:09/9
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:41	06:39	06:32 19:47-20:13/26	05:43	05:31 06:01-06:10/9
	17:22	18:18	19:05	20:57	21:42	22:05
26	08:32	07:38	06:37	06:30 19:47-20:13/26	05:42	05:31 06:01-06:10/9
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36	06:35	06:28 19:46-20:13/27	05:41	05:32 06:02-06:11/9
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32	06:26 19:46-20:13/27	05:40	05:32 06:02-06:11/9
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24 19:47-20:13/26	05:39	05:33 06:03-06:11/8
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22 19:47-20:13/26	05:38	05:33 06:03-06:11/8
	17:31		20:14	21:05	21:48	22:04
31	08:26		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	936	0	167	271	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:12/8	06:09	06:57	07:44 18:30-18:48/18	07:37	08:26 15:38-15:49/11
	22:04	21:34	20:33	19:25	17:21	16:42 11:24-12:04/40
2	05:34 06:04-06:12/8	06:10	06:59	07:46 18:30-18:48/18	07:38	08:27 15:38-15:51/13
	22:04	21:32	20:31	19:23	17:19	16:41 11:25-12:05/40
3	05:35 06:05-06:12/7	06:12	07:00	07:48 18:29-18:47/18	07:40	08:29 15:38-15:51/13
	22:04	21:30	20:29	19:21	17:17	16:41 11:24-12:05/41
4	05:36 06:06-06:13/7	06:13 20:07-20:11/4	07:02	07:49 18:30-18:46/16	07:42	08:30 15:38-15:52/14
	22:03	21:29	20:27	19:19	17:16	16:40 11:25-12:07/42
5	05:37 06:07-06:13/6	06:15 20:04-20:15/11	07:03	07:51 18:30-18:45/15	07:44	08:31 15:38-15:53/15
	22:03	21:27	20:24	19:16	17:14	16:40 11:25-12:07/42
6	05:37 06:07-06:12/5	06:17 20:01-20:16/15	07:05	07:53 18:31-18:43/12	07:45	08:33 15:38-15:53/15
	22:02	21:25	20:22	19:14	17:12	16:39 11:25-12:07/42
7	05:38 06:08-06:13/5	06:18 20:00-20:18/18	07:06	07:54 18:33-18:41/8	07:47	08:34 15:39-15:54/15
	22:02	21:24	20:20	19:12	17:11	16:39 11:26-12:09/43
8	05:39 06:09-06:13/4	06:20 19:59-20:19/20	07:08	07:56	07:49	08:35 15:39-15:55/16
	22:01	21:22	20:18	19:10	17:09	16:39 11:26-12:09/43
9	05:40 06:10-06:13/3	06:21 19:57-20:19/22	07:10	07:57	07:50	08:36 15:39-15:55/16
	22:00	21:20	20:15	19:08	17:07	16:38 11:26-12:09/43
10	05:41 06:11-06:13/2	06:23 19:57-20:20/23	07:11	07:59	07:52	08:37 15:39-15:55/16
	22:00	21:18	20:13	19:05	17:06	16:38 11:26-12:10/44
11	05:42 06:12-06:13/1	06:24 19:55-20:20/25	07:13	08:01	07:54	08:38 15:39-15:56/17
	21:59	21:16	20:11	19:03	17:04	16:38 11:26-12:10/44
12	05:43	06:26 19:55-20:21/26	07:14	08:02	07:56	08:39 15:40-15:56/16
	21:58	21:14	20:09	19:01	17:03	16:38 11:26-12:11/45
13	05:44	06:27 19:54-20:20/26	07:16	08:04	07:57	08:40 15:40-15:57/17
	21:57	21:13	20:06	18:59	17:01	16:38 11:27-12:12/45
14	05:45	06:29 19:54-20:21/27	07:17	08:06	07:59	08:41 15:41-15:57/16
	21:56	21:11	20:04	18:57	17:00	16:38 11:27-12:12/45
15	05:46	06:30 19:54-20:20/26	07:19	08:07	08:01	08:42 15:41-15:58/17
	21:56	21:09	20:02	18:55	16:59	16:38 11:28-12:13/45
16	05:48	06:32 19:54-20:20/26	07:21	08:09	08:02	08:43 15:42-15:58/16
	21:55	21:07	20:00	18:52	16:57	16:38 11:28-12:13/45
17	05:49	06:34 19:53-20:19/26	07:22	08:11	08:04	08:44 15:42-15:59/17 11:11-11:13/2
	21:54	21:05	19:57	18:50	16:56	16:38 11:29-12:14/45
18	05:50	06:35 19:54-20:19/25	07:24	08:12	08:06	08:45 15:42-15:59/17 11:09-11:14/5
	21:52	21:03	19:55	18:48	16:55	16:39 11:28-12:14/46
19	05:51	06:37 19:54-20:18/24	07:25	08:14	08:07	08:45 15:43-16:00/17 11:09-11:15/6
	21:51	21:01	19:53	18:46	16:53	16:39 11:29-12:15/46
20	05:52	06:38 19:55-20:18/23	07:27	08:16	08:09 11:38-11:40/2	08:46 15:44-16:00/16 11:10-11:17/7
	21:50	20:59	19:50	18:44	16:52	16:39 11:30-12:16/46
21	05:54	06:40 19:55-20:16/21	07:28	08:18	08:11 11:33-11:48/15	08:47 15:44-16:00/16 11:10-11:17/7
	21:49	20:57	19:48	18:42	16:51	16:40 11:30-12:16/46
22	05:55	06:41 19:56-20:14/18	07:30	08:19	08:12 11:31-11:52/21	08:47 15:45-16:01/16 11:11-11:18/7
	21:48	20:55	19:46	18:40	16:50	16:40 11:31-12:17/46
23	05:56	06:43 19:57-20:12/15	07:32	08:21	08:14 11:29-11:53/24	08:48 15:45-16:01/16 11:11-11:18/7
	21:47	20:53	19:44	18:38	16:49	16:41 11:31-12:17/46
24	05:58	06:44 20:00-20:10/10	07:33	08:23	08:16 11:28-11:55/27	08:48 15:45-16:01/16 11:12-11:18/6
	21:45	20:50	19:41	18:36	16:48	16:41 11:31-12:17/46
25	05:59	06:46	07:35	07:24	08:17 11:27-11:57/30	08:48 15:46-16:03/17 11:13-11:18/5
	21:44	20:48	19:39	17:34	16:47	16:42 11:32-12:18/46
26	06:00	06:48	07:36 18:39-18:44/5	07:26	08:19 11:26-11:58/32	08:49 15:46-16:03/17 11:14-11:17/3
	21:43	20:46	19:37	17:32	16:46	16:43 11:33-12:18/45
27	06:02	06:49	07:38 18:36-18:47/11	07:28	08:20 11:26-12:00/34	08:49 15:47-16:03/16
	21:41	20:44	19:34	17:30	16:45	16:43 11:33-12:18/45
28	06:03	06:51	07:40 18:33-18:47/14	07:30	08:22 11:26-12:01/35	08:49 15:47-16:04/17
	21:40	20:42	19:32	17:28	16:44	16:44 11:33-12:19/46
29	06:05	06:52	07:41 18:32-18:48/16	07:31	08:23 15:40-15:46/6	08:49 15:47-16:04/17
	21:38	20:40	19:30	17:26	16:43 11:25-12:02/37	16:45 11:34-12:19/45
30	06:06	06:54	07:43 18:30-18:48/18	07:33	08:25 15:40-15:48/8	08:50 15:48-16:04/16
	21:37	20:38	19:28	17:25	16:43 11:25-12:03/38	16:46 11:34-12:19/45
31	06:08	06:55		07:35		08:50 15:48-16:05/17
	21:35	20:35		17:23		16:47 11:35-12:20/45
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	56	431	64	105	309	1919

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50 07:13-07:15/2	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48 07:11-07:15/4	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46 07:09-07:14/5	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44 07:07-07:13/6	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42 07:08-07:11/3	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	351	167	303	20	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57		07:44	08:24-08:30/6	07:37		08:26	09:00-09:20/20
	22:04	21:34		20:33		19:25	08:09-08:11/2	17:21		16:42	
2	05:34	06:11		06:59		07:46	08:22-08:32/10	07:38		08:27	09:01-09:21/20
	22:04	21:32		20:31		19:23		17:19		16:42	
3	05:35	06:12		07:00		07:48	08:20-08:33/13	07:40		08:29	09:01-09:20/19
	22:03	21:30		20:29		19:21		17:17		16:41	
4	05:36	06:14		07:02		07:49	08:19-08:33/14	07:42		08:30	09:02-09:21/19
	22:03	21:29		20:27		19:19		17:16		16:40	
5	05:37	06:15		07:03		07:51	08:19-08:34/15	07:43		08:31	09:03-09:21/18
	22:03	21:27		20:24		19:16		17:14		16:40	
6	05:38	06:17		07:05		07:53	08:18-08:33/15	07:45		08:33	09:04-09:21/17
	22:02	21:25		20:22		19:14		17:12		16:40	
7	05:38	06:18		07:07		07:54	08:19-08:32/13	07:47		08:34	09:06-09:21/15
	22:02	21:24		20:20		19:12		17:11		16:39	
8	05:39	06:20		07:08		07:56	08:21-08:32/11	07:49		08:35	09:07-09:21/14
	22:01	21:22		20:18		19:10		17:09		16:39	
9	05:40	06:21		07:10		07:57	08:22-08:29/7	07:50		08:36	09:08-09:21/13
	22:00	21:20		20:15		19:08		17:07		16:39	
10	05:41	06:23		07:11		07:59	08:50-08:59/9	07:52		08:37	09:09-09:21/12
	22:00	21:18		20:13		19:05	08:24-08:26/2	17:06		16:38	
11	05:42	06:24		07:13		08:01	08:48-09:01/13	07:54		08:38	09:10-09:21/11
	21:59	21:16		20:11		19:03		17:04		16:38	
12	05:43	06:26		07:14	19:17-19:25/8	08:02	08:47-09:02/15	07:56		08:39	09:11-09:21/10
	21:58	21:14		20:09		19:01		17:03		16:38	
13	05:44	06:27		07:16	19:15-19:26/11	08:04	08:45-09:02/17	07:57		08:40	09:12-09:21/9
	21:57	21:13		20:06		18:59	18:24-18:25/1	17:01		16:38	
14	05:45	06:29		07:18	19:13-19:27/14	08:06	08:44-09:03/19	07:59		08:41	09:13-09:21/8
	21:56	21:11		20:04		18:57	18:21-18:28/7	17:00		16:38	
15	05:47	06:30		07:19	19:12-19:27/15	08:07	08:44-09:03/19	08:01		08:42	09:14-09:21/7
	21:55	21:09		20:02		18:55	18:20-18:27/7	16:59		16:38	
16	05:48	06:32		07:21	19:11-19:27/16	08:09	08:44-09:03/19	08:02		08:43	09:15-09:21/6
	21:54	21:07		20:00		18:53	18:19-18:24/5	16:57		16:38	
17	05:49	06:34		07:22	19:11-19:27/16	08:11	08:44-09:02/18	08:04		08:44	09:16-09:21/5
	21:53	21:05		19:57		18:50	18:19-18:22/3	16:56		16:39	
18	05:50	06:35		07:24	19:10-19:25/15	08:12	08:44-09:02/18	08:06		08:45	09:16-09:20/4
	21:52	21:03		19:55		18:48		16:55		16:39	
19	05:51	06:37		07:25	19:11-19:25/14	08:14	08:45-09:01/16	08:07	09:05-09:09/4	08:45	09:17-09:18/1
	21:51	21:01		19:53		18:46		16:53		16:39	
20	05:53	06:38		07:27	19:12-19:23/11	08:16	08:46-09:00/14	08:09	09:04-09:12/8	08:46	
	21:50	20:59		19:50		18:44		16:52		16:39	
21	05:54	06:40		07:29	19:13-19:20/7	08:18	08:48-08:57/9	08:11	09:03-09:14/11	08:47	
	21:49	20:57		19:48		18:42		16:51		16:40	
22	05:55	06:41		07:30		08:19		08:12	09:02-09:16/14	08:47	
	21:48	20:55		19:46		18:40		16:50		16:40	
23	05:56	06:43	07:11-07:15/4	07:32		08:21		08:14	09:01-09:16/15	08:48	
	21:47	20:53		19:44		18:38		16:49		16:41	
24	05:58	06:45	07:11-07:17/6	07:33		08:23		08:16	09:01-09:17/16	08:48	09:19-09:20/1
	21:45	20:50		19:41		18:36		16:48		16:41	
25	05:59	06:46	07:12-07:17/5	07:35		07:24		08:17	09:02-09:18/16	08:48	09:22-09:24/2
	21:44	20:48		19:39		17:34		16:47		16:42	09:20-09:21/1
26	06:01	06:48	07:14-07:18/4	07:36		07:26		08:19	09:01-09:18/17	08:49	09:20-09:25/5
	21:43	20:46		19:37		17:32		16:46		16:43	
27	06:02	06:49	07:15-07:17/2	07:38	08:05-08:12/7	07:28		08:20	09:02-09:19/17	08:49	09:20-09:26/6
	21:41	20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51		07:40	08:04-08:12/8	07:30		08:22	09:02-09:20/18	08:49	09:20-09:26/6
	21:40	20:42		19:32		17:28		16:44		16:44	
29	06:05	06:52		07:41	08:06-08:12/6	07:31		08:23	09:01-09:19/18	08:49	09:20-09:27/7
	21:38	20:40		19:30		17:27		16:44		16:45	
30	06:06	06:54		07:43	08:08-08:12/4	07:33		08:25	09:01-09:20/19	08:49	09:20-09:28/8
	21:37	20:38		19:28		17:25		16:43		16:46	
31	06:08	06:56				07:35				08:50	09:20-09:29/9
	21:35	20:35				17:23				16:47	
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	21		152		317		173		273	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 08:57-09:09/12	07:32 17:35-17:51/16	07:23	06:20	05:36 06:16-06:35/19
	16:48	17:35	18:25	20:17	21:06	21:50 20:17-20:40/23
2	08:49	08:22 08:58-09:08/10	07:30 17:35-17:51/16	07:21	06:18	05:36 06:17-06:36/19
	16:49	17:36	18:26	20:19	21:08	21:52 20:17-20:42/25
3	08:49	08:21 08:59-09:06/7	07:28 17:36-17:50/14	07:19	06:16	05:35 06:16-06:35/19
	16:50	17:38	18:28	20:20	21:09	21:53 20:16-20:43/27
4	08:49	08:19	07:26 17:37-17:49/12	07:17	06:15	05:34 06:16-06:35/19
	16:51	17:40	18:30	20:22	21:11	21:54 20:15-20:43/28
5	08:49	08:18	07:24 17:39-17:46/7	07:14	06:13	05:34 06:17-06:35/18
	16:53	17:42	18:32	20:24	21:13	21:55 20:15-20:44/29
6	08:49	08:16	07:21	07:12	06:11	05:33 06:17-06:35/18
	16:54	17:44	18:33	20:25	21:14	21:55 20:14-20:45/31
7	08:48	08:14	07:19	07:10	06:09	05:32 06:18-06:35/17
	16:55	17:45	18:35	20:27	21:16	21:56 20:14-20:46/32
8	08:48	08:13	07:17	07:08	06:08	05:32 06:19-06:36/17
	16:56	17:47	18:37	20:29	21:17	21:57 20:13-20:46/33
9	08:47	08:11	07:15	07:05	06:06	05:31 06:18-06:35/17
	16:58	17:49	18:39	20:30	21:19	21:58 20:14-20:47/33
10	08:47	08:09	07:13	07:03	06:04	05:31 06:19-06:35/16
	16:59	17:51	18:40	20:32	21:21	21:59 20:14-20:48/34
11	08:46	08:08	07:10	07:01	06:03	05:31 06:20-06:35/15
	17:00	17:53	18:42	20:33	21:22	22:00 20:14-20:49/35
12	08:46	08:06	07:08	06:59	06:01	05:30 06:19-06:35/16
	17:02	17:54	18:44	20:35	21:24	22:00 20:13-20:48/35
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:35/15
	17:03	17:56	18:45	20:37	21:25	22:01 20:13-20:49/36
14	08:44	08:02 08:26-08:28/2	07:04	06:55	05:58	05:30 06:20-06:35/15
	17:05	17:58	18:47	20:38	21:27	22:01 20:14-20:49/35
15	08:44	08:00 08:24-08:27/3	07:02	06:52	05:56	05:30 06:21-06:35/14
	17:06	18:00	18:49	20:40	21:28	22:02 20:14-20:50/36
16	08:43	07:58 08:22-08:26/4	06:59	06:50	05:55	05:30 06:21-06:35/14
	17:08	18:02	18:50	20:42	21:30	22:03 20:14-20:50/36
17	08:42	07:56	06:57	06:48	05:53	05:29 06:22-06:35/13
	17:09	18:03	18:52	20:43	21:31	22:03 20:14-20:51/37
18	08:41	07:55	06:55 07:17-07:19/2	06:46	05:52	05:29 06:22-06:35/13
	17:11	18:05	18:54	20:45	21:32	22:03 20:14-20:51/37
19	08:40	07:53	06:53 07:15-07:20/5	06:44	05:51 06:21-06:29/8	05:30 06:22-06:35/13
	17:12	18:07	18:55	20:47	21:34	22:04 20:14-20:51/37
20	08:39	07:51	06:50 07:13-07:20/7	06:42	05:49 06:20-06:30/10	05:30 06:22-06:35/13
	17:14	18:09	18:57	20:48	21:35	22:04 20:14-20:51/37
21	08:38	07:49	06:48 07:10-07:19/9	06:40	05:48 06:19-06:32/13	05:30 06:22-06:35/13
	17:16	18:11	18:59	20:50	21:37	22:04 20:14-20:51/37
22	08:37	07:47 08:10-08:11/1	06:46 07:08-07:18/10	06:38	05:47 06:17-06:32/15	05:30 06:23-06:36/13
	17:17	18:12	19:00	20:52	21:38	22:04 20:15-20:52/37
23	08:36 09:03-09:04/1	07:45 17:41-17:46/5	06:44 07:10-07:17/7	06:36	05:46 06:17-06:32/15	05:30 06:23-06:36/13
	17:19	18:14 08:08-08:12/4	19:02 07:06-07:09/3	20:53	21:39	22:05 20:15-20:52/37
24	08:35 09:02-09:06/4	07:43 17:39-17:49/10	06:41 07:04-07:09/5	06:34	05:44 06:16-06:33/17	05:30 06:23-06:36/13
	17:21	18:16 08:06-08:12/6	19:04	20:55	21:41	22:05 20:15-20:52/37
25	08:34 09:00-09:06/6	07:40 17:37-17:51/14	06:39 07:01-07:07/6	06:32	05:43 06:16-06:34/18	05:31 06:24-06:37/13
	17:22	18:18 08:04-08:12/8	19:05	20:56	21:42	22:05 20:16-20:53/37
26	08:32 08:59-09:08/9	07:38 17:36-17:52/16	06:37 07:02-07:04/2	06:30	05:42 06:16-06:34/18	05:31 06:23-06:37/14
	17:24	18:19 08:02-08:12/10	19:07	20:58	21:43	22:05 20:16-20:53/37
27	08:31 08:57-09:08/11	07:36 17:35-17:51/16	06:34	06:28	05:41 06:15-06:34/19	05:32 06:24-06:38/14
	17:26	18:21 08:03-08:11/8	19:09	21:00	21:45 20:25-20:31/6	22:05 20:16-20:52/36
28	08:30 08:56-09:09/13	07:34 17:35-17:51/16	06:32	06:26	05:40 06:15-06:34/19	05:32 06:24-06:38/14
	17:28	18:23 08:04-08:08/4	19:10	21:01	21:46 20:22-20:34/12	22:05 20:17-20:53/36
29	08:28 08:55-09:09/14		07:30	06:24	05:39 06:16-06:35/19	05:33 06:24-06:39/15
	17:29		20:12	21:03	21:47 20:21-20:37/16	22:05 20:16-20:52/36
30	08:27 08:55-09:09/14		07:28	06:22	05:38 06:16-06:35/19	05:33 06:24-06:39/15
	17:31		20:14	21:05	21:48 20:19-20:38/19	22:04 20:17-20:53/36
31	08:25 08:56-09:09/13		07:25		05:37 06:16-06:35/19	
	17:33		20:15		21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	85	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 08:32-08:41/9	08:43
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 08:34-08:40/6	08:44
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 08:36-08:40/4	08:45
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 08:37-08:38/1	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09	08:46
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14	08:48
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May	June
1	08:50	15:12-15:51/39	08:24	17:01-17:05/4	07:32		07:23		06:20	05:36
	16:48		17:35	16:20-16:55/35	18:25		20:17		21:06	21:51
2	08:50	15:13-15:52/39	08:23	17:00-17:07/7	07:30		07:21	19:50-19:53/3	06:18	05:36
	16:49		17:36	16:20-16:55/35	18:26		20:19		21:08	21:52
3	08:49	15:14-15:53/39	08:21	17:00-17:09/9	07:28		07:19	19:48-19:55/7	06:16	05:35
	16:50		17:38	16:19-16:56/37	18:28		20:20		21:10	21:53
4	08:49	15:14-15:52/38	08:19	17:01-17:11/10	07:26		07:17	19:47-19:57/10	06:15	05:34
	16:51		17:40	16:19-16:57/38	18:30		20:22		21:11	21:54
5	08:49	15:14-15:53/39	08:18	17:01-17:13/12	07:24		07:14	19:46-19:58/12	06:13	05:33
	16:53		17:42	16:19-16:57/38	18:32		20:24		21:13	21:55
6	08:49	15:14-15:53/39	08:16	17:01-17:15/14	07:21		07:12	19:44-19:59/15	06:11	05:33
	16:54		17:44	16:19-16:57/38	18:33		20:25		21:14	21:56
7	08:48	15:15-15:54/39	08:15	17:02-17:15/13	07:19		07:10	19:44-20:01/17	06:09	05:32
	16:55		17:45	16:19-16:57/38	18:35		20:27		21:16	21:57
8	08:48	15:15-15:54/39	08:13	17:04-17:15/11	07:17		07:08	19:44-20:03/19	06:08	05:32
	16:56		17:47	16:20-16:58/38	18:37		20:29		21:17	21:57
9	08:48	15:16-15:55/39	08:11	17:05-17:13/8	07:15		07:05	19:44-20:03/19	06:06	05:31
	16:58		17:49	16:20-16:58/38	18:39		20:30		21:19	21:58
10	08:47	15:16-15:55/39	08:09	16:20-16:57/37	07:13		07:03	19:44-20:03/19	06:04	05:31
	16:59		17:51		18:40		20:32		21:21	21:59
11	08:47	15:17-15:55/38	08:08	16:20-16:57/37	07:11	18:14-18:17/3	07:01	19:44-20:01/17	06:03	05:31
	17:00		17:53		18:42		20:34		21:22	22:00
12	08:46	15:18-15:56/38	08:06	16:21-16:56/35	07:08	18:13-18:19/6	06:59	19:45-19:59/14	06:01	05:30
	17:02		17:54		18:44		20:35		21:24	22:00
13	08:45	15:18-15:56/38	08:04	16:21-16:56/35	07:06	18:11-18:20/9	06:57	19:47-19:58/11	05:59	05:30
	17:03		17:56		18:45		20:37		21:25	22:01
14	08:45	15:19-15:56/37	08:02	16:22-16:55/33	07:04	18:11-18:22/11	06:55	19:50-19:54/4	05:58	05:30
	17:05		17:58		18:47		20:38		21:27	22:02
15	08:44	15:20-15:56/36	08:00	16:23-16:54/31	07:02	18:11-18:24/13	06:52		05:56	05:30
	17:06		18:00		18:49		20:40		21:28	22:02
16	08:43	15:20-15:56/36	07:58	16:24-16:53/29	06:59	18:11-18:26/15	06:50		05:55	05:30
	17:08		18:02		18:50		20:42		21:30	22:03
17	08:42	15:21-15:56/35	07:57	16:26-16:52/26	06:57	18:11-18:25/14	06:48		05:53	05:29
	17:09		18:03		18:52		20:43		21:31	22:03
18	08:41	15:22-15:56/34	07:55	16:28-16:50/22	06:55	18:13-18:24/11	06:46		05:52	05:29
	17:11		18:05		18:54		20:45		21:33	22:04
19	08:40	15:23-15:56/33	07:53	16:30-16:48/18	06:53	18:15-18:22/7	06:44		05:51	05:29
	17:12		18:07		18:55		20:47		21:34	22:04
20	08:39	15:24-15:56/32	07:51	16:33-16:45/12	06:50		06:42		05:49	05:30
	17:14		18:09		18:57		20:48		21:35	22:04
21	08:38	15:24-15:55/31	07:49		06:48		06:40		05:48	05:30
	17:16		18:11		18:59		20:50		21:37	22:04
22	08:37	16:30-16:38/8	07:47		06:46		06:38		05:47	05:30
	17:17	15:26-15:55/29	18:12		19:00		20:52		21:38	22:05
23	08:36	16:28-16:42/14	07:45		06:44		06:36		05:46	05:30
	17:19	15:27-15:54/27	18:14		19:02		20:53		21:40	22:05
24	08:35	16:26-16:45/19	07:43		06:41		06:34		05:44	05:30
	17:21	15:29-15:54/25	18:16		19:04		20:55		21:41	22:05
25	08:34	16:24-16:46/22	07:41		06:39		06:32		05:43	05:31
	17:22	15:30-15:52/22	18:18		19:05		20:57		21:42	22:05
26	08:32	16:24-16:48/24	07:39		06:37		06:30		05:42	05:31
	17:24	15:33-15:51/18	18:19		19:07		20:58		21:43	22:05
27	08:31	16:22-16:49/27	07:36		06:35		06:28		05:41	05:32
	17:26	15:35-15:48/13	18:21		19:09		21:00		21:45	22:05
28	08:30	16:22-16:51/29	07:34		06:32		06:26		05:40	05:32
	17:28	15:40-15:45/5	18:23		19:10		21:01		21:46	22:05
29	08:28	16:21-16:52/31			07:30		06:24		05:39	05:33
	17:29				20:12		21:03		21:47	22:05
30	08:27	16:21-16:53/32			07:28		06:22		05:38	05:33
	17:31				20:14		21:05		21:48	22:05
31	08:26	17:01-17:03/2			07:26				05:37	
	17:33	16:20-16:54/34			20:15				21:49	
Potential sun hours	262		279		367		415		482	495
Sum of minutes with flicker	1158		738		89		167		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 21:34	06:57 19:44-20:01/17 20:33	07:44 18:52-18:58/6 19:25	07:37 16:38-16:40/2 17:21 15:49-16:27/38	08:26 14:59-15:37/38 16:42
2	05:34 22:04	06:11 21:32	06:59 19:42-20:01/19 20:31	07:46 18:52-18:56/4 19:23	07:38 16:35-16:43/8 17:19 15:49-16:27/38	08:27 15:00-15:38/38 16:41
3	05:35 22:04	06:12 21:30	07:00 19:42-20:01/19 20:29	07:48 18:53-18:54/1 19:21	07:40 16:32-16:44/12 17:17 15:49-16:27/38	08:29 14:59-15:38/39 16:41
4	05:36 22:03	06:14 21:29	07:02 19:41-20:00/19 20:27	07:49 19:19	07:42 16:31-16:45/14 17:16 15:48-16:27/39	08:30 15:00-15:39/39 16:40
5	05:37 22:03	06:15 21:27	07:03 19:41-19:58/17 20:24	07:51 19:16	07:44 16:31-16:44/13 17:14 15:49-16:27/38	08:31 15:00-15:39/39 16:40
6	05:37 22:02	06:17 21:25	07:05 19:40-19:55/15 20:22	07:53 19:14	07:45 16:30-16:42/12 17:12 15:49-16:27/38	08:33 15:00-15:39/39 16:39
7	05:38 22:02	06:18 21:24	07:07 19:41-19:54/13 20:20	07:54 19:12	07:47 16:30-16:41/11 17:11 15:49-16:27/38	08:34 15:01-15:40/39 16:39
8	05:39 22:01	06:20 21:22	07:08 19:41-19:51/10 20:18	07:56 19:10	07:49 16:31-16:39/8 17:09 15:50-16:26/36	08:35 15:02-15:40/38 16:39
9	05:40 22:00	06:21 21:20	07:10 19:42-19:49/7 20:15	07:57 19:08	07:51 16:31-16:38/7 17:07 15:50-16:26/36	08:36 15:02-15:41/39 16:39
10	05:41 22:00	06:23 21:18	07:11 19:43-19:46/3 20:13	07:59 19:05	07:52 16:32-16:36/4 17:06 15:51-16:26/35	08:37 15:02-15:41/39 16:38
11	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 16:33-16:35/2 17:04 15:52-16:26/34	08:38 15:03-15:41/38 16:38
12	05:43 21:58	06:26 21:14	07:14 20:09	08:02 19:01	07:56 15:52-16:24/32 17:03	08:39 15:03-15:42/39 16:38
13	05:44 21:57	06:27 21:13	07:16 20:06	08:04 18:59	07:57 15:53-16:24/31 17:01	08:40 15:03-15:42/39 16:38
14	05:45 21:57	06:29 21:11	07:18 20:04	08:06 18:57	07:59 15:54-16:23/29 17:00 15:12-15:17/5	08:41 15:04-15:42/38 16:38
15	05:46 21:56	06:30 21:09	07:19 20:02	08:07 18:55	08:01 15:55-16:22/27 16:59 15:08-15:21/13	08:42 15:05-15:43/38 16:38
16	05:48 21:55	06:32 21:07	07:21 20:00	08:09 18:53	08:03 15:57-16:21/24 16:57 15:06-15:24/18	08:43 15:05-15:44/39 16:38
17	05:49 21:54	06:34 21:05	07:22 19:57	08:11 18:50	08:04 15:58-16:20/22 16:56 15:04-15:26/22	08:44 15:06-15:44/38 16:38
18	05:50 21:53	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:00-16:19/19 16:55 15:03-15:28/25	08:45 15:06-15:44/38 16:39
19	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:08 16:02-16:16/14 16:53 15:01-15:28/27	08:45 15:07-15:45/38 16:39
20	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:05-16:14/9 16:52 15:01-15:30/29	08:46 15:07-15:46/39 16:39
21	05:54 21:49	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:00-15:31/31 16:51	08:47 15:07-15:45/38 16:40
22	05:55 21:48	06:41 20:55	07:30 19:46	08:19 17:03-17:16/13 18:40	08:12 15:00-15:32/32 16:50	08:47 15:08-15:46/38 16:40
23	05:56 21:47	06:43 20:53	07:32 19:44	08:21 17:00-17:19/19 18:38	08:14 14:59-15:32/33 16:49	08:48 15:08-15:47/39 16:41
24	05:58 21:45	06:45 20:50	07:33 18:59-19:04/5 19:41	08:23 16:57-17:21/24 18:36	08:16 14:59-15:33/34 16:48	08:48 15:10-15:48/38 16:41
25	05:59 21:44	06:46 20:48	07:35 18:56-19:06/10 19:39	07:24 15:56-16:22/26 17:34	08:17 14:59-15:34/35 16:47	08:48 15:10-15:48/38 16:42
26	06:00 21:43	06:48 20:46	07:36 18:54-19:07/13 19:37	07:26 15:54-16:24/30 17:32	08:19 14:58-15:34/36 16:46	08:49 15:10-15:48/38 16:43
27	06:02 21:41	06:49 20:44	07:38 18:53-19:08/15 19:34	07:28 15:52-16:24/32 17:30	08:20 14:59-15:35/36 16:45	08:49 15:10-15:48/38 16:43
28	06:03 21:40	06:51 20:42	07:40 18:52-19:05/13 19:32	07:30 15:51-16:25/34 17:28	08:22 14:59-15:36/37 16:44	08:49 15:10-15:49/39 16:44
29	06:05 21:38	06:52 19:50-19:56/6 20:40	07:41 18:52-19:03/11 19:30	07:31 15:51-16:25/34 17:26	08:23 14:59-15:36/37 16:43	08:49 15:11-15:49/38 16:45
30	06:06 21:37	06:54 19:48-19:59/11 20:38	07:43 18:51-19:00/9 19:28	07:33 15:50-16:26/36 17:25	08:25 14:59-15:37/38 16:43	08:50 15:11-15:50/39 16:46
31	06:08 21:35	06:56 19:45-19:59/14 20:35		07:35 15:50-16:27/37 17:23		08:50 15:12-15:50/38 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	215	296	1196	1192

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:36-15:57/21	08:24	07:32 17:51-17:59/8	07:23	06:20 20:36-20:38/2	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 15:37-15:57/20	08:23	07:30 17:52-18:01/9	07:21	06:18 20:35-20:40/5	05:36
	16:49	17:36	18:27	20:19	21:08	21:52
3	08:49 15:38-15:58/20	08:21	07:28 17:53-18:01/8	07:19	06:16 20:34-20:41/7	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49 15:38-15:57/19	08:19	07:26	07:17	06:15 20:34-20:43/9	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 15:40-15:58/18	08:18	07:24	07:14	06:13 20:34-20:44/10	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 16:18-16:20/2	08:16	07:21	07:12	06:11 20:34-20:45/11	05:33
	16:54 15:40-15:57/17	17:44	18:33	20:25	21:14	21:56
7	08:48 16:18-16:22/4	08:15	07:19	07:10	06:09 20:34-20:47/13	05:32
	16:55 15:41-15:58/17	17:45	18:35	20:27	21:16	21:57
8	08:48 16:17-16:23/6	08:13	07:17	07:08	06:08 20:34-20:48/14	05:32
	16:56 15:42-15:57/15	17:47	18:37	20:29	21:18	21:57
9	08:48 16:17-16:25/8	08:11	07:15	07:06	06:06 20:35-20:49/14	05:31
	16:58 15:44-15:57/13	17:49	18:39	20:30	21:19	21:58
10	08:47 16:16-16:26/10	08:09	07:13	07:03	06:04 20:36-20:48/12	05:31
	16:59 15:45-15:56/11	17:51	18:40	20:32	21:21	21:59
11	08:47 16:16-16:27/11	08:08	07:11	07:01	06:03 20:38-20:47/9	05:31
	17:00 15:47-15:55/8	17:53	18:42	20:34	21:22	22:00
12	08:46 16:16-16:29/13	08:06	07:08 18:18-18:19/1	06:59	06:01 20:53-20:54/1	05:30
	17:02 15:51-15:53/2	17:55	18:44	20:35	21:24 20:39-20:45/6	22:00
13	08:45 16:16-16:31/15	08:04	07:06 18:16-18:20/4	06:57	05:59 20:54-20:56/2	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45 16:16-16:32/16	08:02	07:04 18:15-18:22/7	06:55	05:58 20:55-20:57/2	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 16:16-16:34/18	08:00	07:02 18:14-18:24/10	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:16-16:35/19	07:58	06:59 18:14-18:26/12	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:16-16:37/21	07:57	06:57 18:14-18:27/13	06:48	05:54	05:29
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:16-16:39/23	07:55	06:55 18:14-18:28/14	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:16-16:39/23	07:53	06:53 18:16-18:27/11	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 16:17-16:40/23	07:51	06:50 18:18-18:25/7	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:16-16:40/24	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:17-16:40/23	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 16:17-16:41/24	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:18-16:41/23	07:43	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:50-16:51/1	07:41	06:39	06:32	05:43	05:31
	17:22 16:18-16:40/22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:51-16:54/3	07:39 17:52-17:54/2	06:37	06:30	05:42	05:31
	17:24 16:19-16:40/21	18:20	19:07	20:58	21:43	22:05
27	08:31 16:50-16:55/5	07:36 17:52-17:56/4	06:35	06:28	05:41	05:32
	17:26 16:20-16:39/19	18:21	19:09	21:00	21:45	22:05
28	08:30 16:51-16:57/6	07:34 17:51-17:57/6	06:32	06:26	05:40	05:32
	17:28 16:21-16:39/18	18:23	19:10	21:01	21:46	22:05
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33
	17:29 16:22-16:38/16		20:12	21:03	21:47	22:05
30	08:27 16:53-17:01/8		07:28	06:22	05:38	05:33
	17:31 16:25-16:37/12		20:14	21:05	21:48	22:05
31	08:26 16:55-17:01/6		07:26		05:37	
	17:33 16:27-16:35/8		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	639	12	104	0	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 20:49-20:56/7	06:57	07:44 18:56-18:58/2	07:37	08:26 15:58-16:09/11
	22:04	21:34	20:33	19:25	17:21	16:42 15:29-15:37/8
2	05:34	06:11 20:48-20:58/10	06:59	07:46	07:38	08:27 15:59-16:09/10
	22:04	21:32	20:31	19:23	17:19	16:41 15:29-15:39/10
3	05:35	06:12 20:46-20:59/13	07:00	07:48	07:40	08:29 16:00-16:08/8
	22:04	21:30	20:29	19:21	17:17	16:41 15:27-15:40/13
4	05:36	06:14 20:45-20:59/14	07:02	07:49	07:42	08:30 16:02-16:08/6
	22:03	21:29	20:27	19:19	17:16	16:40 15:27-15:42/15
5	05:37	06:15 20:45-20:58/13	07:03	07:51	07:44	08:31 16:03-16:07/4
	22:03	21:27	20:24	19:16	17:14	16:40 15:27-15:43/16
6	05:37	06:17 20:44-20:56/12	07:05	07:53	07:45	08:33 16:04-16:06/2
	22:02	21:25	20:22	19:14	17:12	16:39 15:26-15:43/17
7	05:38	06:18 20:44-20:55/11	07:07	07:54	07:47	08:34 15:27-15:45/18
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20 20:43-20:53/10	07:08	07:56	07:49	08:35 15:27-15:45/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 20:43-20:51/8	07:10	07:58	07:51	08:36 15:26-15:46/20
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23 20:44-20:50/6	07:11	07:59 18:29-18:34/5	07:52	08:37 15:26-15:46/20
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24 20:44-20:48/4	07:13	08:01 18:26-18:36/10	07:54 16:26-16:33/7	08:38 15:26-15:47/21
	21:59	21:16	20:11	19:03	17:04 15:58-16:07/9	16:38
12	05:43	06:26 20:45-20:46/1	07:14	08:02 18:24-18:33/9	07:56 16:24-16:32/8	08:39 15:27-15:48/21
	21:58	21:14	20:09	19:01	17:03 15:55-16:08/13	16:38
13	05:44	06:27	07:16	08:04 18:24-18:31/7	07:57 16:24-16:31/7	08:40 15:27-15:48/21
	21:57	21:13	20:06	18:59	17:01 15:54-16:10/16	16:38
14	05:45	06:29	07:18	08:06 18:24-18:29/5	07:59 16:23-16:29/6	08:41 15:27-15:49/22
	21:57	21:11	20:04	18:57	17:00 15:53-16:11/18	16:38
15	05:46	06:30	07:19	08:07 18:24-18:27/3	08:01 16:23-16:28/5	08:42 15:28-15:50/22
	21:56	21:09	20:02	18:55	16:59 15:53-16:12/19	16:38
16	05:48	06:32	07:21	08:09	08:03 16:24-16:27/3	08:43 15:28-15:50/22
	21:55	21:07	20:00	18:53	16:57 15:52-16:13/21	16:38
17	05:49	06:34	07:22	08:11	08:04 16:24-16:25/1	08:44 15:29-15:51/22
	21:54	21:05	19:57	18:50	16:56 15:52-16:14/22	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45 15:29-15:51/22
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:08 15:51-16:15/24	08:45 15:29-15:52/23
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09 15:52-16:15/23	08:46 15:30-15:53/23
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18	08:11 15:52-16:16/24	08:47 15:30-15:53/23
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19	08:12 15:53-16:16/23	08:47 15:31-15:53/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 19:02-19:08/6	08:21	08:14 15:52-16:16/24	08:48 15:31-15:54/23
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:00-19:10/10	08:23	08:16 15:53-16:16/23	08:48 15:32-15:55/23
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:57-19:11/14	07:24	08:17 15:54-16:15/21	08:48 15:32-15:55/23
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:57-19:10/13	07:26	08:19 15:54-16:14/20	08:49 15:33-15:55/22
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:56-19:08/12	07:28	08:20 15:55-16:13/18	08:49 15:33-15:55/22
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:55-19:05/10	07:30	08:22 15:56-16:12/16	08:49 15:34-15:55/21
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 21:07-21:08/1	06:52	07:41 18:55-19:03/8	07:31	08:23 15:56-16:11/15	08:49 15:34-15:56/22
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06 21:05-21:07/2	06:54	07:43 18:55-19:00/5	07:33	08:25 15:57-16:10/13	08:50 15:35-15:56/21
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 21:05-21:06/1	06:56		07:35		08:50 15:35-15:56/21
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	4	109	78	41	422	658

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
9	08:48 16:58	08:11 16:40-16:54/14 17:49 15:49-16:35/46	07:15 18:39	07:06 20:01-20:05/4 20:30	06:06 18:38-19:58/80 20:39-20:50/11 21:19 07:09-07:43/34	05:31 18:47-19:58/71 21:58 20:59-21:22/23
10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
27	08:31 15:46-16:55/69 17:26	07:36 18:21	06:35 19:09	06:28 18:43-19:53/70 21:00 07:07-07:47/40	05:41 18:41-19:58/77 21:45 20:59-21:13/14	05:32 18:53-20:01/68 22:05 21:04-21:26/22
28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:57/71 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:58/72 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	978	1031	0	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69 22:04 21:05-21:27/22	06:09 18:48-20:08/80 20:50-21:04/14 21:34 07:20-07:50/30	06:57 20:01-20:07/6 20:33	07:45 19:25	07:37 16:11-16:22/11 17:21 15:19-16:04/45	08:26 15:38-15:53/15 16:42
2	05:35 18:52-20:02/70 22:04 21:04-21:27/23	06:11 18:48-20:09/81 20:50-21:03/13 21:32 07:20-07:52/32	06:59 20:00-20:04/4 20:31	07:46 19:23	07:38 16:09-16:24/15 17:19 15:18-16:05/47	08:27 15:41-15:52/11 16:42
3	05:35 18:53-20:03/70 22:04 21:05-21:27/22	06:12 18:48-20:08/80 20:49-21:01/12 21:30 07:19-07:52/33	07:00 19:59-20:03/4 20:29	07:48 19:21	07:40 16:08-16:26/18 17:18 15:18-16:05/47	08:29 16:41
4	05:36 18:53-20:03/70 22:03 21:05-21:28/23	06:14 18:47-20:07/80 20:49-20:59/10 21:29 07:19-07:54/35	07:02 19:58-20:00/2 20:27	07:49 19:19	07:42 15:17-16:26/69 17:16	08:30 16:40
5	05:37 18:53-20:04/71 22:03 21:06-21:28/22	06:15 18:48-20:08/80 20:49-20:58/9 21:27 07:18-07:54/36	07:03 20:24	07:51 19:17	07:44 15:17-16:27/70 17:14	08:31 16:40
6	05:38 18:52-20:04/72 22:02 21:05-21:28/23	06:17 18:48-20:07/79 20:49-20:56/7 21:25 07:17-07:54/37	07:05 20:22	07:53 19:14	07:45 15:17-16:28/71 17:12	08:33 16:40
7	05:38 18:52-20:04/72 22:02 21:05-21:28/23	06:18 18:48-20:07/79 20:50-20:55/5 21:24 07:17-07:55/38	07:07 20:20	07:54 19:12	07:47 15:17-16:28/71 17:11	08:34 16:39
8	05:39 18:52-20:05/73 22:01 21:06-21:28/22	06:20 18:48-20:06/78 20:50-20:53/3 21:22 07:16-07:55/39	07:08 20:18	07:56 19:10	07:49 15:17-16:29/72 17:09	08:35 16:39
9	05:40 18:52-20:05/73 22:00 21:06-21:28/22	06:21 18:49-20:06/77 21:20 07:16-07:56/40	07:10 20:15	07:58 19:08	07:51 15:17-16:29/72 17:08	08:36 16:39
10	05:41 18:52-20:05/73 22:00 21:06-21:28/22	06:23 18:48-20:05/77 21:18 07:15-07:55/40	07:11 20:13	07:59 19:05	07:52 15:17-16:30/73 17:06	08:37 16:38
11	05:42 18:52-20:06/74 21:59 21:07-21:27/20	06:24 18:49-20:05/76 21:16 07:16-07:56/40	07:13 20:11	08:01 19:03	07:54 15:18-16:30/72 17:04	08:38 16:38
12	05:43 18:52-20:06/74 21:58 21:07-21:27/20	06:26 18:49-20:04/75 21:14 07:15-07:55/40	07:14 20:09	08:02 19:01	07:56 15:17-16:29/72 17:03	08:39 16:38
13	05:44 18:52-20:06/74 21:57 21:07-21:26/19	06:27 18:49-20:03/74 21:13 07:14-07:55/41	07:16 20:06	08:04 18:59	07:57 15:18-16:29/71 17:01	08:40 16:38
14	05:45 18:51-20:07/76 21:56 21:08-21:25/17	06:29 18:50-20:02/72 21:11 07:15-07:55/40	07:18 20:04	08:06 18:57	07:59 15:18-16:29/71 17:00	08:41 16:38
15	05:47 18:51-20:07/76 21:56 21:08-21:24/16	06:31 18:50-20:01/71 21:09 07:14-07:54/40	07:19 20:02	08:07 18:55	08:01 15:19-16:28/69 16:59	08:42 16:38
16	05:48 18:51-20:07/76 21:55 21:09-21:23/14	06:32 18:51-20:00/69 21:07 07:15-07:54/39	07:21 20:00	08:09 18:53	08:03 16:06-16:27/21 16:57 15:20-16:05/45	08:43 16:38
17	05:49 18:51-20:07/76 21:54 21:09-21:22/13	06:34 18:51-19:59/68 21:05 07:15-07:53/38	07:22 19:57	08:11 18:15-18:22/7 18:50	08:04 16:07-16:25/18 16:56 15:21-16:04/43	08:44 16:39
18	05:50 18:50-20:07/77 21:53 21:10-21:21/11	06:35 18:52-19:58/66 21:03 07:16-07:53/37	07:24 19:55	08:13 18:14-18:20/6 18:48	08:06 16:08-16:24/16 16:55 15:22-16:04/42	08:45 16:39
19	05:51 18:50-20:07/77 21:51 21:10-21:20/10	06:37 18:53-19:56/63 21:01 07:16-07:52/36	07:25 19:53	08:14 18:13-18:18/5 18:46	08:08 16:09-16:22/13 16:54 15:22-16:03/41	08:45 16:39
20	05:53 18:50-20:09/79 21:50 21:12-21:20/8	06:38 18:54-19:55/61 20:59 07:17-07:52/35	07:27 19:50	08:16 18:13-18:17/4 18:44	08:09 16:10-16:21/11 16:52 15:23-16:03/40	08:46 16:39
21	05:54 18:50-20:08/78 21:49 21:13-21:18/5	06:40 18:54-19:53/59 20:57 07:17-07:50/33	07:29 19:48	08:18 18:12-18:14/2 18:42 16:40-16:46/6	08:11 16:12-16:20/8 16:51 15:24-16:02/38	08:47 16:40
22	05:55 18:50-20:08/78 21:48 21:15-21:17/2	06:41 18:56-19:52/56 20:55 07:18-07:49/31	07:30 19:46	08:19 16:34-16:51/17 18:40	08:12 16:15-16:19/4 16:50 15:25-16:02/37	08:47 16:40
23	05:56 18:49-20:08/79 21:47	06:43 18:57-19:49/52 20:53 07:19-07:47/28	07:32 19:44	08:21 16:31-16:54/23 18:38	08:14 15:26-16:01/35 16:49	08:48 16:41
24	05:58 18:50-20:09/79 21:45	06:45 18:59-19:48/49 20:50 07:21-07:46/25	07:33 19:41	08:23 16:29-16:57/28 18:36	08:16 15:27-16:00/33 16:48	08:48 16:41
25	05:59 18:49-20:09/80 21:44 07:34-07:37/3	06:46 19:00-19:45/45 20:48 07:22-07:43/21	07:35 19:39	07:24 15:27-15:58/31 17:34	08:17 15:28-16:00/32 16:47	08:48 16:42
26	06:01 18:49-20:09/80 21:43 07:29-07:41/12	06:48 19:02-19:43/41 20:46 07:25-07:41/16	07:37 19:37	07:26 15:25-16:00/35 17:32	08:19 15:29-15:58/29 16:46	08:49 16:43
27	06:02 18:48-20:08/80 20:55-20:59/4 21:41 07:28-07:44/16	06:49 19:04-19:40/36 20:44 07:28-07:36/8	07:38 19:35	07:28 15:23-16:00/37 17:30	08:20 15:31-15:58/27 16:45	08:49 16:44
28	06:03 18:49-20:09/80 20:54-21:02/8 21:40 07:26-07:46/20	06:51 19:07-19:37/30 20:42	07:40 19:32	07:30 15:22-16:01/39 17:28	08:22 15:33-15:57/24 16:44	08:49 16:44
29	06:05 18:48-20:09/81 20:52-21:03/11 21:38 07:24-07:47/23	06:52 19:10-19:32/22 20:40	07:41 19:30	07:31 15:21-16:02/41 17:27	08:23 15:34-15:56/22 16:44	08:49 16:45
30	06:06 18:48-20:08/80 20:51-21:03/12 21:37 07:23-07:49/26	06:54 19:19-19:24/5 20:38	07:43 19:28	07:33 15:20-16:03/43 17:25	08:25 15:36-15:55/19 16:43	08:50 16:46
31	06:08 18:48-20:09/81 20:50-21:04/14 21:35 07:22-07:50/28	06:56 20:04-20:07/3 20:35		07:35 15:19-16:04/45 17:23		08:50 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	16	369	1634	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 14:50-15:34/44	08:24 08:58-09:29/31	07:32	07:23 19:36-19:52/16	06:20 06:48-07:00/12	05:37 06:40-07:07/27
	16:48 12:37-13:24/47	17:35 17:03-17:05/2	18:25	20:17	21:06	21:51
2	08:50 14:51-15:35/44	08:23 08:57-09:29/32	07:30	07:21 19:34-19:53/19	06:18 06:45-07:03/18	05:36 06:41-07:07/26
	16:49 12:38-13:24/46	17:37 17:04-17:07/3	18:27	20:19	21:08	21:52
3	08:49 14:52-15:35/43	08:21 08:56-09:29/33	07:28	07:19 19:33-19:55/22	06:17 06:44-07:05/21	05:35 06:41-07:06/25
	16:50 12:39-13:25/46	17:38 17:06-17:07/1	18:28	20:20	21:10	21:53
4	08:49 14:52-15:35/43	08:19 08:57-09:31/34	07:26	07:17 19:33-19:57/24	06:15 06:42-07:06/24	05:34 06:43-07:07/24
	16:51 12:39-13:24/45	17:40	18:30	20:22	21:11	21:54
5	08:49 14:53-15:36/43	08:18 08:56-09:31/35	07:24	07:14 19:33-19:58/25	06:13 06:40-07:07/27	05:34 06:43-07:06/23
	16:53 12:40-13:24/44	17:42	18:32	20:24	21:13	21:55
6	08:49 14:53-15:35/42	08:16 08:56-09:31/35	07:22	07:12 19:32-19:56/24	06:11 06:40-07:08/28	05:33 06:44-07:06/22
	16:54 12:41-13:24/43	17:44	18:33	20:25	21:14	21:56
7	08:48 14:54-15:36/42	08:15 08:55-09:31/36	07:19	07:10 19:32-19:55/23	06:09 06:38-07:09/31	05:32 06:44-07:05/21
	16:55 12:42-13:24/42	17:46	18:35	20:27	21:16	21:56
8	08:48 14:54-15:36/42	08:13 08:56-09:32/36	07:17	07:08 19:32-19:54/22	06:08 06:37-07:09/32	05:32 06:45-07:05/20
	16:56 12:43-13:23/40	17:47	18:37	20:29	21:17	21:57
9	08:48 14:55-15:37/42	08:11 08:56-09:32/36	07:15	07:06 19:33-19:53/20	06:06 06:37-07:10/33	05:32 06:46-07:04/18
	16:58 12:45-13:24/39	17:49	18:39	20:30	21:19	21:58
10	08:47 14:55-15:37/42	08:09 08:56-09:31/35	07:13	07:03 19:34-19:52/18	06:04 06:36-07:10/34	05:31 06:47-07:04/17
	16:59 12:46-13:23/37	17:51	18:40	20:32	21:21	21:59
11	08:46 14:56-15:37/41	08:08 08:56-09:31/35	07:11	07:01 19:35-19:51/16	06:03 06:36-07:11/35	05:31 06:48-07:04/16
	17:00 12:47-13:22/35	17:53	18:42	20:34	21:22	22:00
12	08:46 14:57-15:37/40	08:06 08:57-09:31/34	07:08	06:59 19:36-19:48/12	06:01 06:35-07:11/36	05:30 06:49-07:03/14
	17:02 12:49-13:22/33	17:55	18:44	20:35	21:24	22:00
13	08:45 14:58-15:37/39	08:04 08:57-09:30/33	07:06	06:57 19:40-19:44/4	06:00 06:35-07:11/36	05:30 06:49-07:02/13
	17:03 12:51-13:21/30	17:56	18:45	20:37	21:25	22:01
14	08:44 14:58-15:37/39	08:02 08:58-09:29/31	07:04	06:55	05:58 06:34-07:11/37	05:30 06:50-07:02/12
	17:05 12:53-13:20/27	17:58	18:47	20:38	21:27	22:02
15	08:44 14:59-15:37/38	08:00 08:58-09:28/30	07:02	06:53	05:57 06:34-07:11/37	05:30 06:50-07:02/12
	17:06 12:55-13:18/23	18:00	18:49	20:40	21:28	22:02
16	08:43 15:00-15:37/37	07:58 08:59-09:27/28	06:59 18:25-18:26/1	06:50	05:55 06:35-07:12/37	05:30 06:51-07:01/10
	17:08 12:58-13:15/17	18:02	18:51	20:42	21:30	22:03
17	08:42 15:01-15:37/36	07:57 09:00-09:26/26	06:57 18:24-18:27/3	06:48	05:54 06:34-07:11/37	05:30 06:52-07:01/9
	17:09 13:07-13:10/3	18:04	18:52	20:43	21:31	22:03
18	08:41 15:02-15:37/35	07:55 09:02-09:24/22	06:55 18:25-18:29/4	06:46	05:52 06:34-07:11/37	05:30 06:53-07:01/8
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 15:03-15:36/33	07:53 09:04-09:21/17	06:53 18:26-18:31/5	06:44	05:51 06:35-07:11/36	05:30 06:53-07:00/7
	17:13	18:07	18:56	20:47	21:34	22:04
20	08:39 15:05-15:36/31	07:51 09:07-09:18/11	06:50	06:42	05:49 06:35-07:12/37	05:30 06:53-07:00/7
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 15:05-15:35/30	07:49	06:48	06:40	05:48 06:35-07:12/37	05:30 06:54-07:01/7
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 15:07-15:34/27	07:47	06:46	06:38	05:47 06:35-07:10/35	05:30 06:54-07:01/7
	17:17	18:13	19:01	20:52	21:38	22:05
23	08:36 15:09-15:33/24	07:45	06:44	06:36	05:46 06:35-07:10/35	05:30 06:54-07:01/7
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 15:12-15:32/20	07:43	06:41	06:34	05:45 06:36-07:10/34	05:31 06:54-07:02/8
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 15:14-15:30/16	07:41	06:39	06:32	05:43 06:36-07:10/34	05:31 06:54-07:03/9
	17:23 09:06-09:17/11	18:18	19:06	20:57	21:42	22:05
26	08:32 15:19-15:27/8	07:39	06:37	06:30	05:42 06:36-07:09/33	05:31 06:54-07:03/9
	17:24 09:04-09:20/16	18:20	19:07	20:58	21:43	22:05
27	08:31 09:02-09:22/20	07:36	06:35	06:28	05:41 06:37-07:09/32	05:32 06:54-07:04/10
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 09:01-09:24/23	07:34	06:32	06:26	05:40 06:38-07:10/32	05:32 06:53-07:05/12
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:00-09:25/25		07:30 19:42-19:47/5	06:24	05:39 06:39-07:09/30	05:33 06:53-07:06/13
	17:29		20:12	21:03	21:47	22:05
30	08:27 08:59-09:27/28		07:28 19:39-19:49/10	06:22	05:38 06:39-07:08/29	05:33 06:52-07:06/14
	17:31		20:14	21:05	21:48	22:04
31	08:26 08:58-09:27/29		07:26 19:37-19:50/13		05:37 06:39-07:08/29	
	17:33 17:01-17:03/2		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	616	41	245	985	427

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:52-07:07/15	06:09 06:45-07:21/36	06:57 19:34-19:50/16	07:45	07:37 08:26-09:01/35	08:26 14:38-15:19/41
	22:04	21:34	20:33	19:25	17:21	16:42 12:29-13:04/35
2	05:35 06:51-07:08/17	06:11 06:46-07:21/35	06:59 19:32-19:50/18	07:46	07:38 08:26-09:01/35	08:27 14:38-15:20/42
	22:04	21:32	20:31	19:23	17:19	16:42 12:29-13:06/37
3	05:35 06:51-07:09/18	06:12 06:46-07:20/34	07:00 19:31-19:52/21	07:48	07:40 08:26-09:02/36	08:29 14:38-15:20/42
	22:04	21:30	20:29	19:21	17:18	16:41 12:28-13:07/39
4	05:36 06:51-07:10/19	06:14 06:47-07:20/33	07:02 19:29-19:51/22	07:49	07:42 08:25-09:01/36	08:30 14:39-15:21/42
	22:03	21:29	20:27	19:19	17:16	16:40 12:28-13:08/40
5	05:37 06:51-07:11/20	06:15 06:48-07:19/31	07:03 19:29-19:52/23	07:51	07:44 08:25-09:01/36	08:31 14:39-15:21/42
	22:03	21:27	20:24	19:17	17:14	16:40 12:27-13:09/42
6	05:38 06:50-07:11/21	06:17 06:48-07:18/30	07:05 19:28-19:52/24	07:53	07:45 08:26-09:01/35	08:33 14:39-15:21/42
	22:02	21:25	20:22	19:14	17:12	16:40 12:27-13:10/43
7	05:38 06:49-07:12/23	06:18 06:49-07:18/29	07:07 19:28-19:53/25	07:54	07:47 08:26-09:00/34	08:34 14:40-15:23/43
	22:02	21:24	20:20	19:12	17:11	16:39 12:27-13:11/44
8	05:39 06:49-07:13/24	06:20 06:50-07:16/26	07:08 19:27-19:51/24	07:56	07:49 08:27-09:00/33	08:35 14:40-15:23/43
	22:01	21:22	20:18	19:10	17:09 16:36-16:39/3	16:39 12:27-13:12/45
9	05:40 06:49-07:14/25	06:21 06:52-07:15/23	07:10 19:28-19:49/21	07:58	07:50 08:28-09:00/32	08:36 14:40-15:23/43
	22:00	21:20	20:15	19:08	17:08 16:34-16:38/4	16:39 12:27-13:13/46
10	05:41 06:49-07:14/25	06:23 06:53-07:13/20	07:11 19:27-19:46/19	07:59	07:52 08:29-08:59/30	08:37 14:40-15:24/44
	22:00	21:18	20:13	19:05	17:06 16:33-16:36/3	16:38 12:27-13:13/46
11	05:42 06:48-07:15/27	06:24 06:55-07:12/17	07:13 19:28-19:45/17	08:01	07:54 08:30-08:59/29	08:38 14:40-15:24/44
	21:59	21:16	20:11	19:03	17:04 16:33-16:35/2	16:38 12:27-13:14/47
12	05:43 06:48-07:16/28	06:26 06:58-07:08/10	07:14 19:28-19:42/14	08:02	07:56 08:31-08:58/27	08:39 14:41-15:24/43
	21:58	21:14	20:09	19:01	17:03	16:38 12:27-13:15/48
13	05:44 06:48-07:17/29	06:27	07:16 19:30-19:40/10	08:04	07:57 08:32-08:57/25	08:40 14:41-15:25/44
	21:57	21:13	20:06	18:59	17:01	16:38 12:27-13:16/49
14	05:45 06:47-07:17/30	06:29	07:18 19:32-19:37/5	08:06	07:59 08:33-08:56/23	08:41 14:42-15:25/43
	21:56	21:11	20:04	18:57	17:00	16:38 12:27-13:16/49
15	05:47 06:47-07:18/31	06:31	07:19	08:07	08:01 08:35-08:55/20	08:42 14:42-15:26/44
	21:56	21:09	20:02	18:55	16:59	16:38 12:28-13:17/49
16	05:48 06:47-07:18/31	06:32	07:21	08:09	08:02 14:52-15:00/8	08:43 14:43-15:27/44
	21:55	21:07	20:00	18:53	16:57 08:37-08:53/16	16:38 12:28-13:18/50
17	05:49 06:46-07:19/33	06:34	07:22	08:11	08:04 14:48-15:04/16	08:44 14:43-15:27/44
	21:54	21:05	19:57	18:50	16:56 08:40-08:51/11	16:39 12:29-13:19/50
18	05:50 06:46-07:19/33	06:35	07:24	08:12	08:06 14:46-15:06/20	08:45 14:43-15:27/44
	21:52	21:03	19:55	18:48	16:55	16:39 12:28-13:18/50
19	05:51 06:46-07:20/34	06:37	07:25	08:14	08:07 14:43-15:07/24	08:45 14:44-15:28/44
	21:51	21:01	19:53	18:46	16:54	16:39 12:29-13:19/50
20	05:53 06:46-07:21/35	06:38	07:27	08:16	08:09 14:42-15:09/27	08:46 14:45-15:29/44
	21:50	20:59	19:50	18:44	16:52	16:40 12:30-13:20/50
21	05:54 06:46-07:21/35	06:40	07:29	08:18	08:11 14:41-15:11/30	08:47 14:45-15:29/44
	21:49	20:57	19:48	18:42	16:51	16:40 12:30-13:20/50
22	05:55 06:45-07:21/36	06:41	07:30	08:19 09:36-09:50/14	08:12 14:41-15:12/31	08:47 14:46-15:30/44
	21:48	20:55	19:46	18:40	16:50	16:40 12:31-13:21/50
23	05:57 06:45-07:21/36	06:43	07:32	08:21 09:34-09:52/18	08:14 14:39-15:12/33	08:48 14:46-15:30/44
	21:47	20:53	19:44	18:38	16:49	16:41 12:31-13:21/50
24	05:58 06:45-07:22/37	06:45	07:33 19:10-19:15/5	08:23 09:32-09:55/23	08:16 14:39-15:14/35	08:48 14:46-15:30/44
	21:45	20:50	19:41	18:36	16:48	16:41 12:31-13:21/50
25	05:59 06:45-07:22/37	06:46	07:35 19:08-19:12/4	07:24 08:31-08:56/25	08:17 14:39-15:15/36	08:48 14:47-15:31/44
	21:44	20:48	19:39	17:34	16:47 12:46-12:47/1	16:42 12:32-13:22/50
26	06:01 06:45-07:22/37	06:48	07:37 19:07-19:10/3	07:26 08:29-08:58/29	08:19 14:38-15:15/37	08:49 14:47-15:31/44
	21:43	20:46	19:37	17:32	16:46 12:36-12:53/17	16:43 12:33-13:23/50
27	06:02 06:45-07:23/38	06:49	07:38 19:07-19:08/1	07:28 08:28-08:58/30	08:20 14:38-15:16/38	08:49 14:48-15:32/44
	21:41	20:44	19:35	17:30	16:45 12:34-12:57/23	16:44 12:33-13:23/50
28	06:03 06:45-07:22/37	06:51	07:40	07:30 08:27-08:59/32	08:22 14:38-15:17/39	08:49 14:48-15:32/44
	21:40	20:42	19:32	17:28	16:44 12:33-12:59/26	16:44 12:34-13:23/49
29	06:05 06:45-07:22/37	06:52	07:41	07:31 08:26-09:00/34	08:23 14:38-15:17/39	08:49 14:48-15:32/44
	21:38	20:40	19:30	17:27	16:44 12:31-13:01/30	16:45 12:34-13:23/49
30	06:06 06:46-07:22/36	06:54 19:41-19:45/4	07:43	07:33 08:26-09:00/34	08:25 14:38-15:19/41	08:50 14:49-15:33/44
	21:37	20:38	19:28	17:25	16:43 12:30-13:03/33	16:46 12:35-13:23/48
31	06:08 06:46-07:22/36	06:56 19:36-19:48/12		07:35 08:26-09:01/35		08:50 14:49-15:33/44
	21:35	20:35		17:23		16:47 12:36-13:24/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	920	340	272	274	1089	2799

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 11:08-12:05/57	08:24	07:32 07:55-08:07/12	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 11:09-12:06/57	08:22	07:30 07:53-08:09/16	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 11:10-12:06/56	08:21	07:28 07:51-08:10/19	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 11:10-12:06/56	08:19	07:26 07:49-08:11/22	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 11:11-12:06/55	08:18	07:24 07:46-08:10/24	07:14	06:13	05:33
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 11:11-12:06/55	08:16	07:21 07:44-08:11/27	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 11:12-12:06/54	08:15	07:19 07:42-08:11/29	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 11:13-12:05/52	08:13	07:17 07:40-08:11/31	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 11:14-12:06/52	08:11	07:15 07:38-08:12/34	07:05	06:06	05:31
	16:57	17:49	18:38	20:30	21:19	21:58
10	08:47 11:15-12:05/50	08:09	07:13 07:35-08:10/35	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 11:16-12:05/49	08:08	07:10 07:33-08:10/37	07:01	06:03 06:28-06:29/1	05:30 06:00-06:01/1
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 11:18-12:05/47	08:06	07:08 07:31-08:10/39	06:59	06:01 06:26-06:29/3	05:30 05:59-06:00/1
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 11:19-12:04/45	08:04	07:06 07:29-08:09/40	06:57	05:59 06:25-06:29/4	05:30 05:59-06:00/1
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 11:20-12:04/44	08:02	07:04 07:26-08:07/41	06:55	05:58 06:23-06:28/5	05:30 05:59-06:00/1
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:21-12:03/42	08:00	07:02 07:24-08:06/42	06:52	05:56 06:22-06:28/6	05:30 05:59-06:00/1
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:22-12:02/40	07:58	06:59 07:22-08:04/42	06:50	05:55 06:21-06:28/7	05:29 05:59-06:00/1
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:24-12:01/37	07:56	06:57 07:19-08:01/42	06:48	05:53 06:19-06:27/8	05:29 05:59-06:00/1
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:26-12:00/34	07:55	06:55 07:17-07:59/42	06:46	05:52 06:18-06:26/8	05:29 05:59-06:00/1
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:28-11:58/30	07:53	06:53 07:17-07:54/37	06:44	05:51 06:17-06:25/8	05:29 05:59-06:00/1
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:31-11:56/25	07:51	06:50 07:16-07:53/37	06:42	05:49 06:19-06:24/5	05:29 05:59-06:00/1
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:33-11:52/19	07:49	06:48 07:16-07:52/36	06:40	05:48	05:30 06:00-06:01/1
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 11:39-11:47/8	07:47	06:46 07:16-07:52/36	06:38	05:47	05:30 06:00-06:01/1
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:43 07:16-07:51/35	06:36	05:45	05:30 06:00-06:01/1
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41 07:16-07:51/35	06:34	05:44	05:30 06:00-06:01/1
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:40	06:39 07:16-07:49/33	06:32	05:43	05:31 06:01-06:02/1
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38	06:37 07:17-07:48/31	06:30	05:42	05:31 06:01-06:02/1
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:03/3	06:34 07:18-07:47/29	06:28	05:41	05:31 06:02-06:03/1
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:05/8	06:32 07:18-07:44/26	06:26	05:40	05:32 06:02-06:03/1
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 08:20-08:42/22	06:24	05:39	05:32 06:03-06:04/1
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 08:22-08:40/18	06:22	05:38	05:33 06:03-06:04/1
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25 08:25-08:36/11		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	964	11	960	0	55	20

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:05/1	06:09 06:37-06:39/2	06:57	07:44 08:09-08:48/39	07:36	08:26 10:58-11:47/49
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:05/1	06:10	06:59	07:46 08:11-08:49/38	07:38	08:27 10:58-11:48/50
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:12-08:48/36	07:40	08:29 10:57-11:49/52
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02	07:49 08:14-08:48/34	07:42	08:30 10:58-11:50/52
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:48/32	07:43	08:31 10:58-11:51/53
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05	07:52 08:17-08:47/30	07:45	08:33 10:57-11:52/55
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:47/28	07:47	08:34 10:58-11:53/55
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:19	07:08	07:56 08:21-08:47/26	07:49	08:35 10:58-11:54/56
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:45/23	07:50	08:36 10:58-11:54/56
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41	06:23	07:11	07:59 08:24-08:44/20	07:52	08:37 10:58-11:55/57
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:26-08:43/17	07:54	08:38 10:58-11:55/57
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 08:17-08:27/10	08:02 08:28-08:42/14	07:56	08:39 10:58-11:56/58
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 08:14-08:31/17	08:04 08:29-08:39/10	07:57	08:40 10:58-11:57/59
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 08:10-08:32/22	08:06 08:31-08:37/6	07:59	08:41 10:59-11:57/58
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 08:09-08:34/25	08:07	08:01	08:42 10:59-11:58/59
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 08:07-08:35/28	08:09	08:02	08:43 10:59-11:59/60
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 08:05-08:36/31	08:11	08:04	08:44 11:00-12:00/60
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 08:04-08:36/32	08:12	08:06	08:45 11:00-12:00/60
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 08:03-08:37/34	08:14	08:07	08:45 11:00-12:00/60
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 08:03-08:38/35	08:16	08:09 11:14-11:22/8	08:46 11:01-12:01/60
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 08:01-08:37/36	08:17	08:11 11:09-11:28/19	08:47 11:01-12:01/60
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 08:01-08:38/37	08:19	08:12 11:07-11:32/25	08:47 11:02-12:02/60
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 08:00-08:37/37	08:21	08:14 11:04-11:34/30	08:48 11:02-12:02/60
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:35/6	06:44	07:33 08:00-08:37/37	08:23	08:16 11:03-11:37/34	08:48 11:02-12:02/60
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:36/8	06:46	07:35 07:59-08:41/42	07:24	08:17 11:02-11:39/37	08:48 11:04-12:03/59
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:37/8	06:48	07:36 08:01-08:43/42	07:26	08:19 11:01-11:40/39	08:49 11:04-12:04/60
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:38/8	06:49	07:38 08:03-08:46/43	07:28	08:20 11:00-11:42/42	08:49 11:04-12:04/60
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:39/7	06:51	07:40 08:04-08:46/42	07:30	08:22 11:00-11:44/44	08:49 11:05-12:04/59
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:39/6	06:52	07:41 08:06-08:47/41	07:31	08:23 10:59-11:44/45	08:49 11:05-12:04/59
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:39/5	06:54	07:43 08:07-08:47/40	07:33	08:25 10:59-11:46/47	08:50 11:06-12:05/59
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:07 06:36-06:39/3	06:55		07:35		08:50 11:07-12:05/58
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	53	2	631	353	370	1780

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT19 - VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 11:31-12:19/48	08:24	07:32 08:22-08:39/17	07:23 07:46-08:10/24 18:12-18:47/35	06:20	05:36 06:14-06:46/32
	16:48	17:35	18:25 07:58-08:14/16	20:17 19:33-19:49/16	21:06	21:50
2	08:49 11:31-12:19/48	08:22	07:30 08:24-08:37/13	07:21 07:43-08:09/26 18:14-18:46/32	06:18	05:36 06:14-06:47/33
	16:49	17:36	18:26 07:59-08:13/14	20:19 19:33-19:48/15	21:08	21:52
3	08:49 11:31-12:19/48	08:21	07:28 08:29-08:31/2	07:19 07:43-08:08/25 18:16-18:43/27	06:16	05:35 06:14-06:47/33
	16:50	17:38	18:28 08:00-08:12/12	20:20 19:34-19:47/13	21:09	21:53
4	08:49 11:32-12:19/47	08:19	07:26 17:34-17:39/5	07:17 07:43-08:07/24 18:19-18:41/22	06:15	05:34 06:13-06:46/33
	16:51	17:40	18:30 08:02-08:10/8	20:22 19:36-19:45/9	21:11	21:54
5	08:49 11:34-12:19/45	08:18	07:24 17:27-17:45/18	07:14 07:44-08:06/22	06:13	05:34 06:14-06:47/33
	16:53	17:42	18:32 07:46-07:50/4	20:24 18:23-18:37/14	21:13	21:55
6	08:49 11:34-12:19/45	08:16	07:21 17:23-17:48/25	07:12 07:44-08:03/19	06:11	05:33 06:14-06:47/33
	16:54	17:44	18:33 07:44-07:53/9	20:25	21:14	21:55
7	08:48 11:35-12:19/44	08:14	07:19 17:21-17:51/30	07:10 07:46-08:01/15	06:09	05:32 06:14-06:48/34
	16:55	17:45	18:35 07:42-07:55/13	20:27	21:16	21:56
8	08:48 11:36-12:19/43	08:13	07:17 17:19-17:53/34	07:08	06:08	05:32 06:15-06:48/33
	16:56	17:47	18:37 07:40-07:56/16	20:29	21:17	21:57
9	08:47 11:37-12:19/42	08:11	07:15 17:16-17:53/37	07:05	06:06	05:31 06:14-06:48/34
	16:58	17:49	18:39 07:38-07:57/19	20:30	21:19	21:58
10	08:47 11:38-12:19/41	08:09	07:13 17:15-17:55/40	07:03	06:04	05:31 06:15-06:48/33
	16:59	17:51	18:40 07:35-07:56/21	20:32	21:20	21:59
11	08:46 11:39-12:18/39	08:08	07:10 17:14-17:56/42	07:01	06:03	05:31 06:15-06:49/34
	17:00	17:53	18:42 07:34-07:56/22	20:33	21:22	22:00
12	08:46 11:40-12:17/37	08:06	07:08 17:13-17:57/44	06:59	06:01	05:30 06:15-06:48/33
	17:02	17:54	18:44 07:34-07:56/22	20:35	21:24	22:00
13	08:45 11:42-12:18/36	08:04 08:28-08:36/8	07:06 17:11-17:57/46	06:57	05:59	05:30 06:15-06:49/34
	17:03	17:56	18:45 07:34-07:56/22	20:37	21:25	22:01
14	08:44 11:43-12:17/34	08:02 08:26-08:39/13	07:04 17:10-17:58/48	06:55	05:58	05:30 06:15-06:49/34
	17:05	17:58	18:47 07:34-07:54/20	20:38	21:27	22:01
15	08:44 11:45-12:16/31	08:00 08:24-08:41/17	07:02 17:10-17:59/49	06:52	05:56	05:30 06:16-06:49/33
	17:06	18:00	18:49 07:35-07:54/19	20:40	21:28	22:02
16	08:43 11:46-12:15/29	07:58 08:22-08:42/20	06:59 17:09-17:59/50	06:50	05:55	05:30 06:16-06:49/33
	17:08	18:02	18:50 07:36-07:52/16	20:42	21:30	22:02
17	08:42 11:48-12:13/25	07:56 08:21-08:43/22	06:57 17:08-17:59/51	06:48	05:53 06:28-06:29/1	05:29 06:16-06:50/34
	17:09	18:03	18:52 07:37-07:51/14	20:43	21:31	22:03
18	08:41 11:51-12:11/20	07:55 08:20-08:44/24	06:55 17:07-17:59/52	06:46	05:52 06:23-06:34/11	05:29 06:16-06:50/34
	17:11	18:05	18:54 07:39-07:47/8	20:45	21:32	22:03
19	08:40 11:54-12:08/14	07:53 08:19-08:45/26	06:53 17:07-17:59/52	06:44 07:07-07:08/1	05:51 06:21-06:37/16	05:29 06:16-06:50/34
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 08:18-08:45/27	06:50 17:07-17:59/52	06:42 07:05-07:08/3	05:49 06:20-06:38/18	05:30 06:16-06:50/34
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49 08:18-08:45/27	06:48 17:06-17:58/52	06:40 07:03-07:09/6	05:48 06:19-06:40/21	05:30 06:16-06:50/34
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 08:18-08:45/27	06:46 17:07-17:58/51	06:38 07:01-07:09/8	05:47 06:17-06:40/23	05:30 06:17-06:51/34
	17:17	18:12 08:10-08:12/2	19:00	20:52	21:38	22:04
23	08:36	07:45 08:18-08:45/27	06:44 17:07-17:58/51	06:36 06:59-07:08/9	05:46 06:16-06:41/25	05:30 06:17-06:51/34
	17:19	18:14 08:08-08:14/6	19:02	20:53	21:39	22:05
24	08:35	07:43 08:18-08:45/27	06:41 17:06-17:56/50	06:34 06:57-07:07/10	05:44 06:16-06:42/26	05:30 06:17-06:51/34
	17:21	18:16 08:06-08:15/9	19:04	20:55	21:41	22:05
25	08:33	07:40 08:19-08:44/25	06:39 07:01-07:04/3 17:07-17:56/49	06:32 06:55-07:06/11	05:43 06:15-06:42/27	05:31 06:18-06:52/34
	17:22	18:18 08:04-08:15/11	19:05 18:39-18:40/1	20:56	21:42	22:05
26	08:32	07:38 08:19-08:44/25	06:37 06:59-07:07/8 17:07-17:55/48	06:30 06:56-07:05/9	05:42 06:15-06:43/28	05:31 06:18-06:52/34
	17:24	18:19 08:02-08:16/14	19:07 18:37-18:42/5	20:58	21:43	22:05
27	08:31	07:36 08:20-08:43/23	06:34 06:57-07:09/12 17:08-17:55/47	06:28 06:58-07:02/4	05:41 06:14-06:44/30	05:32 06:19-06:52/33
	17:26	18:21 08:00-08:16/16	19:09 18:36-18:44/8	21:00	21:45	22:05
28	08:30	07:34 08:20-08:41/21	06:32 06:55-07:10/15 17:08-17:53/45	06:26	05:40 06:14-06:44/30	05:32 06:18-06:52/34
	17:28	18:23 07:57-08:15/18	19:10 18:34-18:45/11	21:01	21:46	22:05
29	08:28		07:30 07:52-08:10/18 18:09-18:52/43	06:24	05:39 06:15-06:45/30	05:33 06:19-06:53/34
	17:29		20:12 19:33-19:47/14	21:03	21:47	22:05
30	08:27		07:28 07:50-08:10/20 18:10-18:51/41	06:22	05:38 06:14-06:45/31	05:33 06:19-06:52/33
	17:31		20:14 19:33-19:49/16	21:05	21:48	22:04
31	08:25		07:25 07:48-08:10/22 18:11-18:50/39		05:37 06:14-06:46/32	
	17:33		20:15 19:33-19:50/17		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	716	435	1668	399	349	1006

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT19 - VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:19-06:53/34 22:04	06:09 21:34	06:57 20:33	07:44 17:51-18:36/45 19:25 08:13-08:35/22	07:36 17:21	08:26 11:21-12:00/39 16:42
2	05:34 06:19-06:53/34 22:04	06:11 21:32	06:59 20:31	07:46 17:52-18:36/44 19:23 08:13-08:35/22	07:38 17:19	08:27 11:21-12:02/41 16:41
3	05:35 06:19-06:53/34 22:03	06:12 21:30	07:00 20:29	07:48 17:52-18:33/41 19:21 08:12-08:34/22	07:40 17:17	08:29 11:20-12:02/42 16:41
4	05:36 06:20-06:54/34 22:03	06:13 21:29	07:02 20:27	07:49 17:54-18:32/38 19:19 08:14-08:34/20	07:42 17:16	08:30 11:21-12:04/43 16:40
5	05:37 06:20-06:54/34 22:03	06:15 21:27	07:03 07:43-07:58/15 20:24	07:51 17:55-18:30/35 19:16 08:16-08:33/17	07:43 17:14	08:31 11:20-12:04/44 16:40
6	05:37 06:20-06:53/33 22:02	06:17 21:25	07:05 07:40-07:59/19 20:22	07:52 17:56-18:28/32 19:14 08:17-08:31/14	07:45 17:12	08:33 11:20-12:05/45 16:39
7	05:38 06:20-06:54/34 22:02	06:18 21:23	07:06 07:39-08:01/22 20:20 18:18-18:32/14	07:54 17:58-18:25/27 19:12 08:19-08:30/11	07:47 17:11	08:34 11:21-12:07/46 16:39
8	05:39 06:21-06:54/33 22:01	06:20 21:22	07:08 07:37-08:01/24 18:13-18:35/22 20:18 19:31-19:39/8	07:56 18:01-18:23/22 19:10 08:21-08:28/7	07:49 17:09	08:35 11:21-12:07/46 16:39
9	05:40 06:21-06:54/33 22:00	06:21 21:20	07:10 07:37-08:02/25 18:10-18:37/27 20:15 19:29-19:41/12	07:57 18:04-18:18/14 19:08 08:38-08:41/3	07:50 17:07	08:36 11:21-12:08/47 16:39
10	05:41 06:21-06:54/33 22:00	06:23 21:18	07:11 07:36-08:02/26 18:07-18:39/32 20:13 19:27-19:41/14	07:59 08:35-08:45/10 19:05	07:52 17:06	08:37 11:21-12:08/47 16:38
11	05:42 06:22-06:54/32 21:59	06:24 21:16	07:13 07:38-08:02/24 18:06-18:40/34 20:11 19:26-19:42/16	08:01 09:00-09:09/9 19:03 08:33-08:47/14	07:54 17:04	08:38 11:21-12:09/48 16:38
12	05:43 06:22-06:54/32 21:58	06:26 21:14	07:14 07:39-08:01/22 18:03-18:41/38 20:09 19:24-19:42/18	08:02 08:57-09:12/15 19:01 08:32-08:48/16	07:56 17:03	08:39 11:21-12:09/48 16:38
13	05:44 06:23-06:54/31 21:57	06:27 21:12	07:16 07:41-08:01/20 18:02-18:42/40 20:06 19:24-19:40/16	08:04 08:54-09:13/19 18:59 08:31-08:48/17	07:57 17:01	08:40 11:21-12:10/49 16:38
14	05:45 06:23-06:54/31 21:56	06:29 21:11	07:17 07:42-08:00/18 17:59-18:42/43 20:04 19:24-19:37/13	08:06 08:53-09:14/21 18:57 08:31-08:48/17	07:59 17:00	08:41 11:21-12:11/50 16:38
15	05:46 06:23-06:54/31 21:55	06:30 21:09	07:19 07:44-07:59/15 17:58-18:43/45 20:02 19:24-19:35/11	08:07 08:52-09:15/23 18:55 08:33-08:48/15	08:01 16:59	08:42 11:22-12:12/50 16:38
16	05:48 06:24-06:53/29 21:54	06:32 07:05-07:10/5 21:07	07:21 07:45-07:57/12 17:57-18:43/46 19:59 19:24-19:33/9	08:09 08:51-09:16/25 18:52 08:35-08:48/13	08:02 16:57	08:43 11:22-12:12/50 16:38
17	05:49 06:24-06:53/29 21:53	06:34 07:02-07:12/10 21:05	07:22 07:47-07:56/9 17:56-18:44/48 19:57 19:25-19:31/6	08:11 08:50-09:16/26 18:50 08:36-08:46/10	08:04 16:56	08:44 11:23-12:13/50 16:38
18	05:50 06:25-06:52/27 21:52	06:35 07:02-07:13/11 21:03	07:24 07:49-07:53/4 17:54-18:43/49 19:55 19:26-19:28/2	08:12 08:49-09:16/27 18:48 08:38-08:46/8	08:06 16:55	08:45 11:23-12:13/50 16:39
19	05:51 06:25-06:52/27 21:51	06:37 07:03-07:13/10 21:01	07:25 17:54-18:44/50 19:53	08:14 08:49-09:17/28 18:46 08:40-08:45/5	08:07 16:53	08:45 11:23-12:14/51 16:39
20	05:52 06:27-06:52/25 21:50	06:38 07:05-07:14/9 20:59	07:27 17:53-18:44/51 19:50	08:16 08:49-09:17/28 18:44	08:09 16:52	08:46 11:24-12:15/51 16:39
21	05:54 06:27-06:51/24 21:49	06:40 07:06-07:13/7 20:57	07:28 17:52-18:43/51 19:48	08:17 08:49-09:16/27 18:42	08:11 16:51	08:46 11:24-12:15/51 16:40
22	05:55 06:28-06:50/22 21:48	06:41 07:08-07:13/5 20:55	07:30 17:52-18:44/52 19:46	08:19 08:49-09:15/26 18:40	08:12 16:50	08:47 11:25-12:16/51 16:40
23	05:56 06:29-06:49/20 21:46	06:43 07:09-07:12/3 20:52	07:32 17:51-18:43/52 19:44	08:21 08:50-09:15/25 18:38	08:14 11:30-11:44/14 16:49	08:48 11:25-12:16/51 16:41
24	05:58 06:31-06:48/17 21:45	06:44 20:50	07:33 17:51-18:43/52 19:41	08:23 08:50-09:14/24 18:36	08:15 11:28-11:48/20 16:48	08:48 11:25-12:16/51 16:41
25	05:59 06:33-06:46/13 21:44	06:46 20:48	07:35 17:50-18:42/52 19:39 08:24-08:27/3	07:24 07:51-08:14/23 17:34	08:17 11:26-11:51/25 16:47	08:48 11:27-12:17/50 16:42
26	06:00 06:35-06:43/8 21:42	06:48 20:46	07:36 17:50-18:41/51 19:37 08:20-08:31/11	07:26 07:53-08:12/19 17:32	08:19 11:24-11:53/29 16:46	08:49 11:27-12:17/50 16:43
27	06:02 21:41	06:49 20:44	07:38 17:51-18:41/50 19:34 08:18-08:33/15	07:28 07:54-08:10/16 17:30	08:20 11:24-11:55/31 16:45	08:49 11:27-12:17/50 16:43
28	06:03 21:40	06:51 20:42	07:40 17:50-18:40/50 19:32 08:16-08:34/18	07:30 07:56-08:08/12 17:28	08:22 11:23-11:57/34 16:44	08:49 11:28-12:17/49 16:44
29	06:05 21:38	06:52 20:40	07:41 17:51-18:39/48 19:30 08:15-08:35/20	07:31 07:59-08:04/5 17:26	08:23 11:22-11:58/36 16:43	08:49 11:28-12:18/50 16:45
30	06:06 21:37	06:54 20:38	07:43 17:50-18:37/47 19:28 08:14-08:36/22	07:33 17:25	08:25 11:22-11:59/37 16:43	08:49 11:29-12:18/49 16:46
31	06:08 21:35	06:55 20:35	 	07:35 17:23	 	08:49 11:30-12:18/48 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	734	60	1513	959	226	1487

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:05-16:14/9 13:09-13:47/38	08:24 14:19-14:52/33	07:32 17:40-17:59/19	07:23 19:11-19:50/39	06:20	05:36
	16:48 13:48-14:59/71	17:35	18:25	20:17	21:06	21:51
2	08:50 16:05-16:15/10 13:10-13:47/37	08:23 14:22-14:49/27	07:30 17:39-18:01/22	07:21 19:11-19:50/39	06:18	05:36
	16:49 13:48-14:59/71	17:36	18:26	20:19	21:08	21:52
3	08:49 16:06-16:17/11 13:11-13:47/36	08:21 14:27-14:45/18	07:28 17:39-18:03/24	07:19 19:10-19:51/41	06:16	05:35 06:03-06:05/2
	16:50 13:49-15:00/71	17:38	18:28	20:20	21:10	21:53
4	08:49 16:05-16:17/12 13:12-13:46/34	08:19	07:26 17:38-18:05/27	07:17 19:10-19:51/41	06:15	05:34 06:02-06:06/4
	16:51 13:49-15:00/71	17:40	18:30	20:22	21:11	21:54
5	08:49 16:06-16:19/13 13:14-13:46/32	08:18	07:24 17:37-18:06/29	07:14 19:10-19:50/40	06:13	05:33 06:02-06:07/5
	16:52 13:50-15:00/70	17:42	18:32	20:24	21:13	21:55
6	08:49 16:05-16:20/15 13:14-13:45/31	08:16	07:21 17:37-18:07/30	07:12 19:09-19:49/40	06:11	05:33 06:01-06:07/6
	16:54 13:50-15:00/70	17:44	18:33	20:25	21:14	21:56
7	08:48 16:06-16:22/16 13:17-13:45/28	08:15	07:19 17:37-18:07/30	07:10 19:09-19:49/40	06:09	05:32 06:01-06:08/7
	16:55 13:51-15:01/70	17:45	18:35	20:27	21:16	21:56
8	08:48 16:06-16:22/16 13:18-13:43/25	08:13	07:17 17:37-18:07/30	07:08 19:10-19:48/38	06:08	05:32 06:01-06:10/9
	16:56 13:51-15:01/70	17:47	18:37	20:29	21:17	21:57
9	08:48 16:06-16:25/19 13:21-13:43/22	08:11	07:15 17:37-18:06/29	07:05 19:10-19:48/38	06:06	05:31 06:00-06:09/9
	16:58 13:52-15:02/70	17:49	18:39	20:30	21:19	21:58
10	08:47 16:06-16:26/20 13:23-13:41/18	08:09	07:13 17:37-18:05/28	07:03 19:11-19:47/36	06:04	05:31 06:00-06:10/10
	16:59 13:52-15:02/70	17:51	18:40	20:32	21:21	21:59
11	08:46 16:06-16:27/21 13:27-13:37/10	08:08	07:10 17:38-18:04/26	07:01 19:11-19:45/34	06:03	05:31 06:00-06:11/11
	17:00 13:53-15:01/68	17:53	18:42	20:34	21:22	22:00
12	08:46 16:07-16:29/22	08:06	07:08 17:39-18:03/24	06:59 19:11-19:44/33	06:01	05:30 05:59-06:11/12
	17:02 13:54-15:02/68	17:54	18:44	20:35	21:24	22:00
13	08:45 16:07-16:31/24	08:04	07:06 17:40-18:01/21	06:57 19:13-19:43/30	05:59 20:55-20:56/1	05:30 05:59-06:11/12
	17:03 13:55-15:02/67	17:56	18:45	20:37	21:25	22:01
14	08:45 16:07-16:32/25	08:02	07:04 17:42-17:59/17	06:55 19:14-19:41/27	05:58 20:56-20:57/1	05:30 05:59-06:12/13
	17:05 13:55-15:02/67	17:58	18:47	20:38	21:27	22:02
15	08:44 16:07-16:34/27	08:00	07:02 17:45-17:56/11	06:52 19:16-19:40/24	05:56	05:30 05:59-06:12/13
	17:06 13:56-15:02/66	18:00	18:49	20:40	21:28	22:02
16	08:43 16:08-16:35/27	07:58	06:59	06:50 19:18-19:37/19	05:55	05:30 05:59-06:13/14
	17:08 13:57-15:02/65	18:02	18:50	20:42	21:30	22:03
17	08:42 16:08-16:36/28	07:57	06:57	06:48 19:20-19:34/14	05:53	05:29 05:59-06:13/14
	17:09 13:57-15:02/65	18:03	18:52	20:43	21:31	22:03
18	08:41 16:09-16:37/28	07:55	06:55	06:46	05:52	05:29 05:59-06:13/14
	17:11 13:58-15:02/64	18:05	18:54	20:45	21:33	22:03
19	08:40 16:09-16:37/28	07:53	06:53	06:44	05:51	05:29 05:59-06:13/14
	17:12 13:59-15:02/63	18:07	18:55	20:47	21:34	22:04
20	08:39 16:10-16:37/27	07:51	06:50	06:42	05:49	05:30 05:59-06:13/14
	17:14 14:00-15:02/62	18:09	18:57	20:48	21:35	22:04
21	08:38 16:10-16:37/27	07:49	06:48	06:40	05:48	05:30 05:59-06:14/15
	17:16 14:01-15:01/60	18:11	18:59	20:50	21:37	22:04
22	08:37 16:11-16:37/26	07:47	06:46	06:38	05:47	05:30 06:00-06:14/14
	17:17 14:02-15:01/59	18:12	19:00	20:52	21:38	22:05
23	08:36 16:12-16:37/25	07:45	06:44 18:28-18:37/9	06:36	05:46	05:30 06:00-06:14/14
	17:19 14:03-15:01/58	18:14	19:02	20:53	21:40	22:05
24	08:35 16:13-16:37/24	07:43	06:41 18:23-18:38/15	06:34	05:44	05:30 06:00-06:14/14
	17:21 14:05-15:01/56	18:16	19:04	20:55	21:41	22:05
25	08:34 16:13-16:36/23	07:41 17:48-17:52/4	06:39 18:21-18:40/19	06:32	05:43	05:31 06:01-06:15/14
	17:22 14:05-15:00/55	18:18	19:05	20:57	21:42	22:05
26	08:32 16:15-16:36/21	07:38 17:46-17:54/8	06:37 18:19-18:42/23	06:30	05:42	05:31 06:01-06:15/14
	17:24 14:07-14:59/52	18:19	19:07	20:58	21:43	22:05
27	08:31 16:16-16:34/18	07:36 17:44-17:56/12	06:35 18:17-18:44/27	06:28	05:41	05:32 06:02-06:15/13
	17:26 14:08-14:58/50	18:21	19:09	21:00	21:45	22:05
28	08:30 16:18-16:34/16	07:34 17:41-17:57/16	06:32 18:15-18:45/30	06:26	05:40	05:32 06:02-06:15/13
	17:28 14:10-14:58/48	18:23	19:10	21:01	21:46	22:05
29	08:28 16:20-16:32/12		07:30 19:14-19:47/33	06:24	05:39	05:33 06:03-06:16/13
	17:29 14:11-14:56/45		20:12	21:03	21:47	22:05
30	08:27 16:24-16:29/5		07:28 19:13-19:49/36	06:22	05:38	05:33 06:03-06:15/12
	17:31 14:14-14:55/41		20:14	21:05	21:48	22:04
31	08:26 14:16-14:53/37		07:26 19:13-19:50/37		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2826	118	596	573	2	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11 22:04	06:09 21:34	06:57 19:10-19:45/35 20:33	07:44 18:19-18:42/23 19:25	07:37 17:21	08:26 15:48-16:09/21 13:10-13:19/9 16:42 13:35-14:44/69
2	05:34 06:04-06:15/11 22:04	06:11 21:32	06:59 19:09-19:45/36 20:31	07:46 18:17-18:43/26 19:23	07:38 17:19	08:27 15:49-16:09/20 13:07-13:23/16 16:41 13:36-14:45/69
3	05:35 06:05-06:15/10 22:04	06:12 21:30	07:00 19:08-19:46/38 20:29	07:48 18:16-18:43/27 19:21	07:40 17:17	08:29 15:49-16:08/19 13:04-13:26/22 16:41 13:35-14:45/70
4	05:36 06:06-06:15/9 22:03	06:14 21:29	07:02 19:07-19:45/38 20:27	07:49 18:15-18:43/28 19:19	07:42 17:16	08:30 15:51-16:08/17 13:03-13:28/25 16:40 13:36-14:46/70
5	05:37 06:07-06:15/8 22:03	06:15 21:27	07:03 19:07-19:46/39 20:24	07:51 18:14-18:44/30 19:16	07:44 17:14	08:31 15:51-16:07/16 13:02-13:30/28 16:40 13:36-14:46/70
6	05:37 06:07-06:14/7 22:02	06:17 21:25	07:05 19:05-19:45/40 20:22	07:53 18:13-18:43/30 19:14	07:45 17:12	08:33 15:51-16:06/15 13:01-13:31/30 16:39 13:36-14:46/70
7	05:38 06:08-06:14/6 22:02	06:18 21:24	07:07 19:05-19:46/41 20:20	07:54 18:13-18:43/30 19:12	07:47 14:05-14:08/3 17:11	08:34 15:53-16:06/13 13:01-13:33/32 16:39 13:37-14:47/70
8	05:39 06:09-06:13/4 22:01	06:20 21:22	07:08 19:04-19:45/41 20:18	07:56 18:13-18:43/30 19:10	07:49 13:57-14:16/19 17:09	08:35 15:53-16:05/12 13:00-13:34/34 16:39 13:37-14:48/71
9	05:40 06:10-06:13/3 22:00	06:21 21:20	07:10 19:05-19:45/40 20:15	07:57 18:12-18:40/28 19:08	07:50 13:53-14:20/27 17:07	08:36 15:54-16:05/11 13:00-13:35/35 16:38 13:37-14:48/71
10	05:41 06:11-06:12/1 22:00	06:23 21:18	07:11 19:04-19:44/40 20:13	07:59 18:13-18:38/25 19:05	07:52 13:50-14:23/33 17:06	08:37 15:54-16:04/10 12:59-13:36/37 16:38 13:37-14:48/71
11	05:42 21:59	06:24 21:16	07:13 19:04-19:43/39 20:11	08:01 18:13-18:36/23 19:03	07:54 13:47-14:25/38 17:04	08:38 15:55-16:04/9 12:59-13:37/38 16:38 13:38-14:49/71
12	05:43 21:58	06:26 21:14	07:14 19:04-19:42/38 20:09	08:02 18:13-18:33/20 19:01	07:56 15:54-16:00/6 17:03 13:45-14:26/41	08:39 15:56-16:04/8 12:59-13:37/38 16:38 13:38-14:49/71
13	05:44 21:57	06:27 21:13	07:16 19:05-19:40/35 20:06	08:04 18:14-18:31/17 18:59	07:57 15:51-16:04/13 17:01 13:43-14:28/45	08:40 15:56-16:04/8 16:38 12:59-14:50/111
14	05:45 21:56	06:29 21:11	07:17 19:04-19:37/33 20:04	08:06 18:15-18:29/14 18:57	07:59 15:50-16:06/16 17:00 13:42-14:30/48	08:41 15:57-16:04/7 16:38 12:59-14:50/111
15	05:46 21:56	06:30 21:09	07:19 19:05-19:35/30 20:02	08:07 18:17-18:27/10 18:55	08:01 15:49-16:07/18 16:59 13:41-14:31/50	08:42 15:58-16:04/6 16:38 12:59-14:51/112
16	05:48 21:55	06:32 21:07	07:21 19:06-19:33/27 20:00	08:09 18:18-18:24/6 18:52	08:02 15:48-16:09/21 16:57 13:40-14:32/52	08:43 15:59-16:04/5 16:38 12:59-14:52/113
17	05:49 21:54	06:34 21:05	07:22 19:07-19:31/24 19:57	08:11 18:21-18:22/1 18:50	08:04 15:47-16:10/23 16:56 13:39-14:34/55	08:44 16:00-16:05/5 16:38 13:00-14:52/112
18	05:50 21:53	06:35 21:03	07:24 19:08-19:28/20 19:55	08:12 18:48	08:06 15:47-16:11/24 16:55 13:39-14:35/56	08:45 16:00-16:04/4 16:39 13:00-14:52/112
19	05:51 21:51	06:37 21:01	07:25 19:10-19:26/16 19:53	08:14 18:46	08:08 15:46-16:11/25 16:53 13:37-14:35/58	08:45 16:00-16:05/5 16:39 13:00-14:53/113
20	05:52 21:50	06:38 20:59	07:27 19:13-19:24/11 19:50	08:16 18:44	08:09 15:46-16:12/26 16:52 13:37-14:36/59	08:46 16:01-16:05/4 16:39 13:01-14:54/113
21	05:54 21:49	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:46-16:13/27 16:51 13:37-14:37/60	08:47 16:01-16:05/4 16:40 13:01-14:54/113
22	05:55 21:48	06:41 20:55	07:30 19:46	08:19 18:40	08:12 15:46-16:13/27 16:50 13:36-14:38/62	08:47 16:02-16:06/4 16:40 13:02-14:55/113
23	05:56 21:47	06:43 20:53	07:32 19:44	08:21 18:38	08:14 15:45-16:13/28 16:49 13:35-14:38/63	08:48 16:02-16:06/4 16:41 13:02-14:55/113
24	05:58 21:45	06:45 20:50	07:33 19:41	08:23 18:36	08:16 15:46-16:14/28 16:48 13:35-14:39/64	08:48 16:02-16:07/5 16:41 13:03-14:55/112
25	05:59 21:44	06:46 19:29-19:31/2 20:48	07:35 19:39	07:24 17:34	08:17 15:46-16:14/28 16:47 13:36-14:40/64	08:48 16:04-16:08/4 16:42 13:03-14:56/113
26	06:00 21:43	06:48 19:23-19:37/14 20:46	07:36 19:37	07:26 17:32	08:19 15:46-16:13/27 16:46 13:35-14:40/65	08:49 16:04-16:08/4 16:43 13:04-14:56/112
27	06:02 21:41	06:49 19:19-19:39/20 20:44	07:38 19:34	07:28 17:30	08:20 15:47-16:13/26 16:45 13:35-14:41/66	08:49 16:04-16:09/5 16:43 13:04-14:56/112
28	06:03 21:40	06:51 19:17-19:42/25 20:42	07:40 18:27-18:36/9 19:32	07:30 17:28	08:22 15:47-16:12/25 16:44 13:35-14:42/67	08:49 16:04-16:10/6 16:44 13:05-14:57/112
29	06:05 21:38	06:52 19:15-19:42/27 20:40	07:41 18:23-18:39/16 19:30	07:31 17:26	08:23 15:47-16:11/24 16:43 13:35-14:42/67	08:49 16:04-16:10/6 16:45 13:06-14:57/111
30	06:06 21:06-21:07/1 21:37	06:54 19:13-19:44/31 20:38	07:43 18:20-18:40/20 19:28	07:33 17:25	08:25 15:48-16:10/22 16:43 13:35-14:43/68	08:50 16:04-16:11/7 16:46 13:06-14:58/112
31	06:08 21:05-21:06/1 21:35	06:56 19:11-19:44/33 20:35		07:35 17:23		08:50 16:04-16:12/8 13:07-13:46/39 16:47 13:47-14:58/71
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	72	152	706	368	1664	3589

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 09:18-09:25/7 17:35	07:32 08:04-08:08/4 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:49/1 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 08:11-08:12/1 19:23	07:38 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:48/2 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:10-08:12/2 17:17	08:29 16:41
4	08:49 16:51	08:19 08:45-08:46/1 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:14/5 17:16	08:30 16:40
5	08:49 16:52	08:18 08:43-08:46/3 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:33 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:11-08:15/4 17:14	08:31 16:40
6	08:48 16:54	08:16 08:41-08:45/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:13-08:15/2 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:44/5 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:15-08:17/2 17:11	08:34 16:39
8	08:48 16:56	08:13 08:41-08:42/1 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:19/2 17:09	08:35 16:39
9	08:47 16:58	08:11 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 17:07	08:36 16:38
10	08:47 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:48-08:56/8 17:06	08:37 16:38
11	08:46 17:00	08:07 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:46-08:58/12 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 07:31-07:32/1 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:45-08:59/14 17:03	08:39 16:38
13	08:45 09:14-09:20/6 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 08:36-08:43/7 18:59	07:57 08:44-09:01/17 17:01	08:40 16:38
14	08:44 09:13-09:22/9 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 08:34-08:44/10 18:57	07:59 08:44-09:02/18 17:00	08:41 16:38
15	08:43 09:12-09:23/11 17:06	08:00 08:24-08:26/2 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 08:34-08:45/11 18:55 08:47-08:53/6	08:01 08:44-09:02/18 16:59	08:42 16:38
16	08:43 09:11-09:24/13 17:08	07:58 08:22-08:25/3 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 08:34-08:54/20 18:52	08:02 08:44-09:03/19 16:57 08:33-08:39/6	08:43 16:38
17	08:42 09:10-09:25/15 17:09	07:56 08:20-08:25/5 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 08:36-08:56/20 18:50	08:04 08:44-09:04/20 16:56 08:34-08:41/7	08:44 16:38
18	08:41 09:10-09:26/16 17:11	07:54 08:18-08:23/5 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 08:38-08:57/19 18:48	08:06 08:43-09:03/20 16:55 08:36-08:42/6	08:44 16:39
19	08:40 09:10-09:27/17 17:12	07:52 08:16-08:25/9 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:29 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 08:40-08:57/17 18:46	08:07 08:44-09:04/20 16:53 08:37-08:41/4	08:45 16:39
20	08:39 09:09-09:27/18 17:14	07:50 08:14-08:25/11 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 08:42-08:57/15 18:44	08:09 08:44-09:04/20 16:52 08:39-08:42/3	08:46 16:39
21	08:38 09:09-09:28/19 17:16 09:05-09:06/1	07:48 08:12-08:26/14 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 08:43-08:56/13 18:42	08:11 08:45-09:04/19 16:51 08:41-08:42/1	08:46 16:40
22	08:37 09:09-09:29/20 17:17 09:04-09:07/3	07:46 08:10-08:26/16 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 08:45-08:56/11 18:40	08:12 08:45-09:03/18 16:50	08:47 16:40
23	08:36 09:10-09:30/20 17:19 09:03-09:07/4	07:44 08:08-08:26/18 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 08:47-08:55/8 18:38	08:14 08:46-09:03/17 16:49	08:47 16:41
24	08:35 09:09-09:29/20 17:21 09:02-09:08/6	07:42 08:06-08:25/19 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 08:49-08:54/5 18:36	08:15 08:47-09:04/17 16:48	08:48 16:41
25	08:33 09:10-09:30/20 17:22 09:00-09:07/7	07:40 08:04-08:24/20 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 07:51-07:56/5 17:34	08:17 08:48-09:04/16 16:47	08:48 16:42
26	08:32 09:11-09:30/19 17:24 09:00-09:06/6	07:38 08:02-08:13/11 18:19 08:14-08:22/8	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 07:53-07:56/3 17:32	08:18 08:49-09:02/13 16:46	08:49 16:43
27	08:31 09:11-09:29/18 17:26	07:36 08:02-08:13/11 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 07:54-07:55/1 17:30	08:20 08:51-09:02/11 16:45	08:49 16:43
28	08:29 09:12-09:30/18 17:28	07:34 08:02-08:11/9 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 08:53-09:02/9 16:44	08:49 16:44
29	08:28 09:12-09:29/17 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 08:54-09:00/6 16:43	08:49 16:45
30	08:27 09:14-09:28/14 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 17:25	08:24 16:43	08:49 16:46
31	08:25 09:15-09:27/12 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	329	185	5	0	0	0	0	0	0	172	356	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45 08:16-08:23/7	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:25/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:26/9	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:26/7	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:27/6	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:23-08:27/4	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:26/2	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:27/1	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:38-08:45/7	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:37-08:47/10	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02 08:37-08:48/11	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04 08:36-08:49/13	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41 09:09-09:13/4	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06 08:35-08:49/14	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 09:08-09:14/6	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:50/13	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:06-09:14/8	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09 08:39-08:50/11	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:14/9	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:50/9	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37 09:04-09:15/11	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:51/8	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:03-09:16/13	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:50/6	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:01-09:15/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15 08:46-08:50/4	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:02-09:15/13	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:04-09:15/11	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:04-09:14/10	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:06-09:13/7	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:55/4		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	115	37	0	0	0	0	0	0	0	0	154	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 08:50-08:57/7 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:04-08:10/6 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:57/9 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:06-08:11/5 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:56/10 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:07-08:10/3 17:17	08:29 16:41
4	08:49 16:51	08:19 08:46-08:56/10 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:10/1 17:16	08:30 16:40
5	08:49 16:53	08:18 08:47-08:55/8 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:34 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:18-08:23/5 17:14	08:31 16:40
6	08:48 16:54	08:16 08:49-08:53/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:17-08:25/8 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:40/1 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:16-08:26/10 17:11	08:34 16:39
8	08:48 16:56	08:13 08:38-08:41/3 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:27/10 17:09	08:35 16:39
9	08:47 16:58	08:11 08:36-08:41/5 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 08:19-08:28/9 17:07	08:36 16:39
10	08:47 16:59	08:09 08:34-08:40/6 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:21-08:28/7 17:06	08:37 16:38
11	08:46 17:00	08:07 08:32-08:39/7 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:22-08:27/5 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:24-08:27/3 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:43 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:55	08:44 16:39
19	08:40 17:12	07:52 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:50 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:48 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 18:42	08:11 16:51	08:46 16:40
22	08:37 17:17	07:46 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:47 16:41
24	08:35 17:21	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 18:36	08:15 16:48	08:48 16:41
25	08:33 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 17:32	08:18 16:46	08:48 16:43
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:29 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 16:44	08:49 16:44
29	08:28 08:54-08:55/1 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 08:53-08:56/3 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 08:04-08:06/2 17:25	08:24 16:43	08:49 16:46
31	08:25 08:51-08:56/5 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 08:02-08:09/7 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:26/6	08:24 08:50-08:54/4	07:32 07:55-08:17/22	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:27/7	08:22 08:48-08:52/4	07:30 07:53-08:18/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:27/7	08:21	07:28 07:51-07:52/1	07:19	06:16	05:35
	16:50	17:38	18:28 07:53-08:19/26	20:20	21:09	21:53
4	08:49 09:19-09:26/7	08:19	07:26 07:49-08:19/30	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:20-09:26/6	08:18	07:24 07:46-08:18/32	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:20-09:25/5	08:16	07:21 07:44-08:18/34	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:23-09:24/1	08:14	07:19 07:42-08:18/36	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:40-08:18/38	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15 07:38-08:17/39	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:37-08:15/38	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08	07:10 07:38-08:14/36	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08 07:39-07:52/13	06:59	06:01	05:30
	17:02	17:54	18:44 07:54-08:13/19	20:35	21:24	22:00
13	08:45	08:04	07:06 07:40-07:50/10	06:57	05:59	05:30
	17:03	17:56	18:45 07:56-08:10/14	20:37	21:25	22:01
14	08:44	08:02	07:04 07:58-08:06/8	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02 17:32-17:34/2	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:23/3	06:57	06:48	05:53	05:29
	17:09	18:03 17:32-17:36/4	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:22/4	06:55	06:46	05:52	05:29
	17:11	18:05 17:33-17:38/5	18:54	20:45	21:32	22:03
19	08:40	07:53 08:16-08:21/5	06:53	06:44	05:51	05:30
	17:12	18:07 17:34-17:40/6	18:55	20:47	21:34	22:04
20	08:39	07:51 08:16-08:19/3	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:15/15	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:16/19	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	44	92	421	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40 18:07-18:10/3	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38 18:04-18:10/6	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36 18:03-18:08/5	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34 17:02-17:05/3	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32 17:01-17:03/2	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	496	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-08:57/7 17:35 09:06-09:28/22	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50
2	08:49 16:49	08:22 08:48-08:56/8 17:36 09:07-09:27/20	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51
3	08:49 16:50	08:21 08:46-08:55/9 17:38 09:08-09:26/18	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52
4	08:49 16:51	08:19 08:45-08:55/10 17:40 09:10-09:25/15	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53
5	08:49 16:53	08:18 08:43-08:55/12 17:42 09:13-09:22/9	07:24 18:32	07:14 20:24	06:13 21:13	05:34 21:54
6	08:49 16:54	08:16 08:41-08:56/15 17:44	07:21 07:44-07:45/1 18:33	07:12 20:25	06:11 21:14	05:33 21:55
7	08:48 16:55	08:14 08:39-08:56/17 17:45	07:19 07:42-07:44/2 18:35	07:10 20:27	06:09 21:16	05:32 21:56
8	08:48 16:56	08:13 08:38-08:56/18 17:47	07:17 07:40-07:42/2 18:37	07:08 20:28	06:08 21:17	05:32 21:57
9	08:47 09:17-09:18/1 16:58	08:11 08:36-08:56/20 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58
10	08:47 09:16-09:18/2 16:59	08:09 08:34-08:55/21 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59
11	08:46 09:15-09:18/3 17:00	08:07 08:37-08:55/18 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59
12	08:46 09:14-09:19/5 17:02 16:27-16:28/1	08:06 08:38-08:54/16 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00
13	08:45 09:14-09:19/5 17:03 16:26-16:30/4	08:04 08:39-08:52/13 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01
14	08:44 09:13-09:21/8 17:05 16:28-16:32/4	08:02 08:42-08:50/8 17:58	07:04 18:47	06:55 20:38	05:58 21:27	05:30 22:01
15	08:44 09:12-09:22/10 17:06 16:28-16:34/6	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02
16	08:43 09:11-09:23/12 17:08 16:28-16:36/8	07:58 08:22-08:23/1 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02
17	08:42 09:10-09:24/14 17:09 16:28-16:37/9	07:56 08:20-08:22/2 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:30 22:03
18	08:41 09:09-09:25/16 17:11 16:29-16:39/10	07:54 08:18-08:19/1 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:30 22:03
19	08:40 09:08-09:26/18 17:12 16:30-16:41/11	07:53 18:07	06:53 18:55	06:44 20:47	05:51 21:34	05:30 22:04
20	08:39 09:06-09:26/20 17:14 16:29-16:42/13	07:51 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04
21	08:38 09:05-09:27/22 17:16 16:31-16:44/13	07:49 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04
22	08:37 09:04-09:28/24 17:17 16:32-16:44/12	07:47 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04
23	08:36 09:03-09:28/25 17:19 16:33-16:44/11	07:45 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:05
24	08:35 09:02-09:28/26 17:21 16:35-16:42/7	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05
25	08:33 09:02-09:29/27 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05
26	08:32 09:03-09:29/26 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05
27	08:31 09:03-09:29/26 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:45	05:32 22:05
28	08:30 08:56-08:57/1 17:28 09:03-09:30/27	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05
29	08:28 08:54-08:57/3 17:29 09:03-09:29/26		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04
30	08:27 08:53-08:58/5 17:31 09:05-09:29/24		07:28 20:14	06:22 21:05	05:38 21:48	05:33 22:04
31	08:25 08:51-08:57/6 17:33 09:05-09:28/23		07:25 20:15		05:37 21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	514	280	5	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:19/2	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54	08:19-08:21/2	07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55	16:09-16:16/7	16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53	16:07-16:18/11	16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52	16:07-16:19/12	16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51	16:07-16:20/13	16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50	16:06-16:18/12	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49	16:06-16:17/11	16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48	16:06-16:16/10	16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47	16:06-16:15/9	16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46	16:06-16:14/8	16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45	16:07-16:13/6	16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44	16:07-16:12/5	16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44	16:08-16:11/3	16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43	16:09-16:11/2	16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	63		728		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:31-09:50/19	08:24	07:32	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:32-09:51/19	08:22	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:31-09:50/19	08:21	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49 09:33-09:51/18	08:19	07:26	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49 09:34-09:51/17	08:18	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:34-09:50/16	08:16	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:35-09:51/16	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:36-09:50/14	08:13 08:38-08:39/1	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:38-09:50/12	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47 09:39-09:49/10	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:16/1	08:07	07:10	07:01	06:03	05:31
	17:00 09:41-09:48/7	17:53	18:42	20:33	21:22	21:59
12	08:46 09:14-09:17/3	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:18/4	08:04	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:19/6	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:20/8	08:00	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:20/9	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:21/11	07:56	06:57	06:48	05:54	05:30
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:21/12	07:54	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:22/14	07:52	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:22/15	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:21/16	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:05-09:21/16	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:06-09:22/16	07:45	06:43	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:06-09:20/14	07:42 08:06-08:07/1	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:08-09:20/12	07:40 08:04-08:06/2	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 08:59-09:01/2	07:38	06:37	06:30	05:42	05:31
	17:24 09:09-09:19/10	18:19	19:07	20:58	21:43	22:05
27	08:31 08:57-09:00/3	07:36	06:34	06:28	05:41	05:32
	17:26 09:11-09:17/6	18:21	19:09	21:00	21:44	22:05
28	08:30 08:56-09:00/4	07:34	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 08:54-08:58/4		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:04	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	353	5	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-08:58/1
	22:04	21:33	20:33	19:25		17:21		16:42	09:23-09:30/7
2	05:34	06:11	06:59	07:46		07:38		08:27	09:22-09:32/10
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:08-08:09/1	08:29	09:21-09:33/12
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:10/1	08:30	09:21-09:35/14
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43		08:31	09:21-09:36/15
	22:02	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52		07:45		08:32	09:20-09:36/16
	22:02	21:25	20:22	19:14		17:12		16:39	
7	05:38	06:18	07:06	07:54		07:47		08:34	09:20-09:37/17
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49		08:35	09:21-09:39/18
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	09:21-09:39/18
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52		08:37	09:21-09:40/19
	21:59	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54		08:38	09:21-09:40/19
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:55		08:39	09:21-09:41/20
	21:58	21:14	20:09	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:30/4	08:40	09:21-09:41/20
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:32/4	08:41	09:22-09:42/20
	21:56	21:10	20:04	18:57		17:00		16:38	
15	05:46	06:30	07:19	08:07		08:01	08:30-08:33/3	08:42	09:22-09:43/21
	21:55	21:09	20:02	18:55		16:59	08:44-08:50/6	16:38	
16	05:48	06:32	07:21	08:09	08:35-08:36/1	08:02	08:32-08:34/2	08:43	09:23-09:44/21
	21:54	21:07	19:59	18:52		16:57	08:42-08:52/10	16:38	09:17-09:19/2
17	05:49	06:34	07:22	08:11	08:36-08:37/1	08:04	08:42-08:54/12	08:44	09:23-09:44/21
	21:53	21:05	19:57	18:50		16:56		16:39	09:17-09:20/3
18	05:50	06:35	07:24	08:12		08:06	08:40-08:54/14	08:44	09:23-09:44/21 09:16-09:21/5
	21:52	21:03	19:55	18:48		16:55		16:39	15:52-15:54/2
19	05:51	06:37	07:25	08:14		08:07	08:40-08:56/16	08:45	09:24-09:45/21 09:17-09:22/5
	21:51	21:01	19:53	18:46		16:53		16:39	15:53-15:55/2
20	05:53	06:38	07:27	08:16		08:09	08:40-08:56/16	08:46	09:25-09:46/21 09:18-09:23/5
	21:50	20:59	19:50	18:44		16:52		16:39	15:52-15:56/4
21	05:54	06:40	07:28	08:17		08:11	08:41-08:57/16	08:46	09:24-09:46/22 09:18-09:23/5
	21:49	20:57	19:48	18:42		16:51		16:40	15:53-15:57/4
22	05:55	06:41	07:30	08:19		08:12	08:43-08:58/15	08:47	09:25-09:47/22 09:19-09:24/5
	21:48	20:54	19:46	18:40		16:50		16:40	15:53-15:57/4
23	05:56	06:43	07:32	08:21		08:14	08:44-08:58/14	08:47	09:26-09:47/21 09:19-09:24/5
	21:46	20:52	19:43	18:38		16:49		16:41	15:54-15:58/4
24	05:58	06:44	07:33	08:23		08:15	08:46-08:58/12	08:48	09:26-09:47/21 09:19-09:24/5
	21:45	20:50	19:41	18:36		16:48		16:41	15:54-15:57/3
25	05:59	06:46	07:35	07:24		08:17	08:48-08:59/11	08:48	09:27-09:48/21 09:20-09:25/5
	21:44	20:48	19:39	17:34		16:47		16:42	15:55-15:57/2
26	06:00	06:48	07:36	07:26		08:18	08:49-08:58/9	08:49	09:27-09:48/21
	21:42	20:46	19:37	17:32		16:46		16:43	09:20-09:25/5
27	06:02	06:49	07:38	07:28		08:20	08:51-08:59/8	08:49	09:27-09:48/21
	21:41	20:44	19:34	17:30		16:45		16:43	09:21-09:24/3
28	06:03	06:51	07:40	07:29		08:22	08:53-08:59/6	08:49	09:28-09:49/21
	21:40	20:42	19:32	17:28		16:44		16:44	09:23-09:24/1
29	06:05	06:52	07:41	07:31		08:23	08:54-08:59/5	08:49	09:28-09:49/21
	21:38	20:40	19:30	17:26		16:44		16:45	
30	06:06	06:54	07:43	07:33		08:24	08:56-08:59/3	08:49	09:29-09:49/20
	21:37	20:37	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35				08:49	09:30-09:50/20
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	2		188		662	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:48/28	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 09:00-09:33/33
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:00-09:34/34
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:00-09:35/35
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:14/5	08:30 09:02-09:36/34
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43 08:11-08:16/5	08:31 09:03-09:36/33
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45 08:13-08:17/4	08:33 09:04-09:36/32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:18/3	08:34 09:06-09:37/31
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:18/1	08:35 09:07-09:38/31
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:38/30
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:38/29
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:39/29
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56 16:26-16:30/4	08:39 09:11-09:39/28
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04 08:32-08:34/2	07:57 16:24-16:31/7	08:40 09:12-09:39/27
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06 08:31-08:37/6	07:59 16:23-16:29/6	08:41 09:13-09:40/27
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30	05:47	06:30	07:19	08:07 08:33-08:38/5	08:01 16:23-16:28/5	08:42 09:14-09:40/26
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:39/4	08:02 08:38-08:42/4	08:43 09:15-09:41/26
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57 16:23-16:27/4	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04 08:36-08:44/8	08:44 09:16-09:42/26
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56 16:22-16:24/2	16:39
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:36-08:46/10	08:44 09:16-09:41/25
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55 16:22-16:23/1	16:39
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:46/9	08:45 09:17-09:42/25
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:39-08:47/8	08:46 09:18-09:43/25
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:48/7	08:46 09:18-09:43/25
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:49/6	08:47 09:19-09:44/25
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:55	19:46	18:40	16:50 09:16-09:22/6	16:40
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:49/5	08:47 09:19-09:44/25
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49 09:13-09:24/11	16:41
24	08:35 09:02-09:12/10	07:43 08:06-08:07/1	06:41	06:34	05:44	05:31	05:58	06:45	07:33	08:23	08:15 08:46-08:49/3	08:48 09:19-09:44/25
	17:21 16:48-16:49/1	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48 09:12-09:26/14	16:41
25	08:33 09:02-09:10/8	07:40 08:04-08:07/3	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48 09:20-09:45/25
	17:22 16:49-16:52/3	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47 09:12-09:28/16	16:42
26	08:32 09:06-09:08/2	07:38 08:02-08:07/5	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19 09:11-09:29/18	08:49 09:20-09:46/26
	17:24 16:50-16:54/4	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 16:50-16:55/5	07:36 08:00-08:06/6	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 09:11-09:30/19	08:49 09:20-09:46/26
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30 16:51-16:58/7	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 09:04-09:06/2	08:49 09:20-09:46/26
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44 09:11-09:32/21	16:44
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 09:01-09:08/7	08:49 09:20-09:47/27
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44 09:10-09:32/22	16:45
30	08:27 16:55-16:59/4		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:01-09:33/32	08:49 09:20-09:47/27
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:56		07:35		08:49 09:20-09:48/28
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	611	39	0	0	0	0	0	0	0	19	277	871

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: RIN_WT01 - Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18	05:35	05:34	06:10	06:59	07:46	07:38	08:28
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:50	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:44	08:32
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:57	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:18	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:51	08:36
	16:57	17:49	18:39	20:30	21:19	21:58	22:01	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:47	08:08	07:10	07:01	06:03	05:30	05:42	06:24	07:13	08:01	07:54	08:39
	17:00	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:40
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:41
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:45	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:57	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:21	08:09	08:03	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	20:00	18:52	16:57	16:38
17	08:42	07:57	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:04	21:53	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:08	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:36	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:05	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:49
	17:22	18:18	19:05	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:44	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:05	06:52	07:41	07:31	08:23	08:50
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:05	21:37	20:38	19:28	17:25	16:43	16:46
31	08:26		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:50		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:41/2	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:39/2	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:34/2	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08 07:33-07:35/2	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	10	0	0	0	5	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12 06:40-06:41/1	07:00 07:26-07:32/6	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:32/5	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03 07:29-07:33/4	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:36/2	06:11	05:33	05:37	06:16	07:05 07:30-07:32/2	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:36/4	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:35/5	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:34/6	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04 06:29-06:30/1	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55 07:17-07:18/1	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52 07:15-07:18/3	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50 07:13-07:17/4	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48 07:11-07:14/3	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45	05:30	05:56	06:43	07:31 07:56-08:00/4	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33 07:58-08:01/3	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:15/3	07:35 07:59-08:01/2	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	11	25	1	0	0	9	26	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June
1	08:49	08:24	07:32		07:23	07:45-07:46/1	06:20		05:36
	16:48	17:34	18:25		20:17		21:06		21:50
2	08:49	08:22	07:30		07:21		06:18		05:35
	16:49	17:36	18:26		20:18		21:08		21:51
3	08:49	08:21	07:28		07:19		06:16		05:35
	16:50	17:38	18:28		20:20		21:09		21:53
4	08:49	08:19	07:26		07:16	07:39-07:40/1	06:14		05:34
	16:51	17:40	18:30		20:22		21:11		21:54
5	08:49	08:18	07:23		07:14	07:37-07:38/1	06:13		05:33
	16:52	17:42	18:31		20:23		21:13		21:54
6	08:49	08:16	07:21		07:12		06:11		05:33
	16:53	17:43	18:33		20:25		21:14		21:55
7	08:48	08:14	07:19		07:10		06:09		05:32
	16:55	17:45	18:35		20:27		21:16		21:56
8	08:48	08:13	07:17		07:07		06:07		05:32
	16:56	17:47	18:37		20:28		21:17		21:57
9	08:47	08:11	07:15		07:05		06:06		05:31
	16:57	17:49	18:38		20:30		21:19		21:58
10	08:47	08:09	07:12		07:03		06:04		05:31
	16:59	17:51	18:40		20:32		21:20		21:59
11	08:46	08:07	07:10		07:01		06:02		05:30
	17:00	17:52	18:42		20:33		21:22		21:59
12	08:46	08:06	07:08		06:59		06:01		05:30
	17:01	17:54	18:43		20:35		21:23		22:00
13	08:45	08:04	07:06		06:57	07:19-07:21/2	05:59		05:30
	17:03	17:56	18:45		20:37		21:25		22:01
14	08:44	08:02	07:04		06:54	07:17-07:22/5	05:58		05:30
	17:04	17:58	18:47		20:38		21:27		22:01
15	08:44	08:00	07:01		06:52	07:15-07:22/7	05:56		05:29
	17:06	18:00	18:49		20:40		21:28		22:02
16	08:43	07:58	06:59		06:50	07:13-07:21/8	05:55		05:29
	17:07	18:01	18:50		20:42		21:29		22:02
17	08:42	07:56	06:57		06:48	07:12-07:20/8	05:53		05:29
	17:09	18:03	18:52		20:43		21:31		22:03
18	08:41	07:54	06:55		06:46	07:13-07:18/5	05:52		05:29
	17:11	18:05	18:54		20:45		21:32		22:03
19	08:40	07:52	06:52		06:44		05:50		05:29
	17:12	18:07	18:55		20:46		21:34		22:04
20	08:39	07:50	06:50		06:42		05:49		05:29
	17:14	18:09	18:57		20:48		21:35		22:04
21	08:38	07:48	06:48		06:40		05:48	06:14-06:15/1	05:29
	17:15	18:10	18:59		20:50		21:37		22:04
22	08:37	07:46	06:46	07:08-07:10/2	06:38		05:47	06:13-06:15/2	05:30
	17:17	18:12	19:00		20:51		21:38		22:04
23	08:36	07:44	06:43	07:06-07:10/4	06:36	06:59-07:01/2	05:45	06:12-06:14/2	05:30
	17:19	18:14	19:02		20:53		21:39		22:05
24	08:35	07:42	06:41	07:03-07:09/6	06:34	06:57-07:00/3	05:44	06:11-06:13/2	05:30
	17:20	18:16	19:04		20:55		21:41		22:05
25	08:33	07:40	06:39	07:01-07:08/7	06:32	06:55-07:00/5	05:43		05:30
	17:22	18:17	19:05		20:56		21:42		22:05
26	08:32	07:38	06:37	07:01-07:06/5	06:30	06:53-06:59/6	05:42		05:31
	17:24	18:19	19:07		20:58		21:43		22:05
27	08:31	07:36	06:34		06:28	06:53-06:57/4	05:41		05:31
	17:26	18:21	19:09		21:00		21:45		22:05
28	08:30	07:34	06:32		06:26		05:40		05:32
	17:27	18:23	19:10		21:01		21:46		22:05
29	08:28		07:30		06:24		05:39		05:32
	17:29		20:12		21:03		21:47		22:05
30	08:27		07:28		06:22		05:38		05:33
	17:31		20:14		21:04		21:48		22:04
31	08:25		07:25				05:37		
	17:33		20:15				21:49		
Potential sun hours	262	279	367		415		482		495
Sum of minutes with flicker	0	0	24		58		7		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10		06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12		07:00		07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02		07:49	07:42	08:30
	22:03		21:29		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03		07:51	07:43	08:31
	22:03		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05		07:52	07:45	08:33
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06	07:32-07:33/1	07:54	07:47	08:34
	22:02		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08	07:33-07:34/1	07:56	07:49	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11		07:59	07:52	08:37
	22:00		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:39/1	08:01	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14		08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16		08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45		06:29		07:17		08:06	07:59	08:41
	21:56		21:10		20:04		18:57	17:00	16:38
15	05:46		06:30		07:19		08:07	08:01	08:42
	21:55		21:09		20:02		18:54	16:58	16:38
16	05:47		06:32	07:00-07:05/5	07:20		08:09	08:02	08:43
	21:54		21:07		19:59		18:52	16:57	16:38
17	05:48		06:33	07:00-07:05/5	07:22	07:50-07:54/4	08:11	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50		06:35	07:02-07:07/5	07:24	07:48-07:55/7	08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36	07:03-07:06/3	07:25	07:50-07:56/6	08:14	08:07	08:45
	21:51		21:01		19:52		18:46	16:53	16:39
20	05:52	06:21-06:23/2	06:38	07:05-07:06/1	07:27	07:52-07:57/5	08:16	08:09	08:46
	21:50		20:59		19:50		18:44	16:52	16:39
21	05:53	06:23-06:25/2	06:40		07:28	07:53-07:56/3	08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55	06:24-06:26/2	06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56	06:25-06:26/1	06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46	07:16-07:21/5	07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47	07:14-07:23/9	07:36		07:26	08:19	08:49
	21:42		20:46		19:37		17:32	16:46	16:42
27	06:02		06:49	07:15-07:23/8	07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51	07:17-07:23/6	07:39		07:29	08:22	08:49
	21:40		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52	07:18-07:23/5	07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54	07:20-07:22/2	07:43		07:33	08:24	08:49
	21:37		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:23		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	9		54		28		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-08:53/3 17:35	07:32 18:25	07:23 20:17	06:20 06:44-06:47/3 21:06 06:53-07:23/30	05:36 21:50
2	08:49 16:49	08:22 08:48-08:52/4 17:36	07:30 18:26	07:21 20:19	06:18 06:42-06:46/4 21:08 06:53-07:22/29	05:35 21:51
3	08:49 16:50	08:21 08:46-08:51/5 17:38	07:28 18:28	07:19 20:20	06:16 06:41-06:46/5 21:09 06:53-07:22/29	05:35 21:52
4	08:49 16:51	08:19 08:45-08:50/5 17:40	07:26 18:30	07:16 20:22	06:14 06:39-06:44/5 21:11 06:53-07:22/29	05:34 21:53
5	08:49 16:52	08:18 08:43-08:49/6 17:42	07:23 18:32	07:14 20:23	06:13 06:53-07:21/28 21:13	05:33 21:54
6	08:49 16:54	08:16 08:41-08:47/6 17:43	07:21 18:33	07:12 20:25	06:11 06:53-07:20/27 21:14	05:33 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:39-08:47/8 17:45	07:19 18:35	07:10 20:27	06:09 06:54-07:20/26 21:16	05:32 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:38-08:48/10 17:47	07:17 18:37	07:08 20:28	06:07 06:32-06:33/1 21:17 06:55-07:19/24	05:32 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:36-08:48/12 17:49	07:15 18:38	07:05 07:28-07:29/1 20:30	06:06 06:31-06:34/3 21:19 06:56-07:18/22	05:31 21:58
10	08:47 09:16-09:21/5 16:59	08:09 08:34-08:48/14 17:51	07:13 18:40	07:03 20:32	06:04 06:29-06:34/5 21:20 06:57-07:17/20	05:31 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:32-08:47/15 17:53	07:10 18:42	07:01 20:33	06:02 06:28-06:36/8 21:22 06:58-07:16/18	05:30 21:59
12	08:46 09:15-09:23/8 17:02	08:06 08:33-08:46/13 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:36/10 21:23 06:59-07:14/15	05:30 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:34-08:45/11 17:56	07:06 07:28-07:29/1 18:45	06:57 20:37	05:59 06:25-06:37/12 21:25 07:02-07:12/10	05:30 22:01
14	08:44 09:13-09:24/11 17:04	08:02 08:35-08:43/8 17:58	07:04 07:26-07:30/4 18:47	06:54 20:38	05:58 06:23-06:36/13 21:27	05:30 22:01
15	08:44 09:12-09:24/12 17:06	08:00 18:00	07:01 07:24-07:31/7 18:49	06:52 20:40	05:56 06:22-06:37/15 21:28	05:30 22:02
16	08:43 09:11-09:25/14 17:08	07:58 18:02	06:59 07:22-07:32/10 18:50	06:50 20:42	05:55 06:21-06:37/16 21:29	05:29 22:02
17	08:42 09:10-09:25/15 17:09	07:56 18:03	06:57 07:19-07:31/12 18:52	06:48 20:43	05:53 06:19-06:36/17 21:31	05:29 22:03
18	08:41 09:09-09:25/16 17:11	07:54 18:05	06:55 07:17-07:31/14 18:54	06:46 20:45	05:52 06:19-06:36/17 21:32	05:29 22:03
19	08:40 09:10-09:25/15 17:12	07:52 18:07	06:52 07:15-07:31/16 18:55	06:44 20:47	05:51 06:19-06:36/17 21:34	05:29 22:04
20	08:39 09:11-09:25/14 17:14	07:50 18:09	06:50 07:16-07:30/14 18:57	06:42 07:08-07:13/5 20:48	05:49 06:20-06:36/16 21:35	05:29 22:04
21	08:38 09:11-09:24/13 17:16	07:49 18:10	06:48 07:16-07:27/11 18:59	06:40 07:04-07:17/13 20:50	05:48 06:19-06:35/16 21:37	05:30 22:04
22	08:37 09:12-09:24/12 17:17	07:46 18:12	06:46 07:18-07:25/7 19:00	06:38 07:01-07:19/18 20:51	05:47 06:20-06:35/15 21:38	05:30 22:04
23	08:36 09:14-09:23/9 17:19	07:44 18:14	06:43 07:06-07:08/2 19:02	06:36 06:59-07:20/21 20:53	05:45 06:21-06:34/13 21:39	05:30 22:05
24	08:35 09:15-09:21/6 17:21	07:42 18:16	06:41 07:04-07:07/3 19:04	06:34 06:58-07:21/23 20:55	05:44 06:22-06:33/11 21:41	05:30 22:05
25	08:33 17:22	07:40 18:18	06:39 07:01-07:05/4 19:05	06:32 06:56-07:22/26 20:56	05:43 06:23-06:32/9 21:42	05:31 22:05
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 06:55-07:22/27 20:58	05:42 06:25-06:30/5 21:43	05:31 22:05
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 06:54-07:22/28 21:00	05:41 21:45	05:31 22:05
28	08:30 17:27	07:34 18:23	06:32 19:10	06:26 06:54-07:22/28 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 20:12	06:24 06:54-07:23/29 21:03	05:39 21:47	05:32 22:04
30	08:27 17:31		07:28 07:50-07:51/1 20:14	06:22 06:46-06:47/1 21:04 06:54-07:23/29	05:38 21:48	05:33 22:04
31	08:25 08:51-08:52/1 17:33		07:25 07:48-07:49/1 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	176	120	107	249	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34		06:09	06:37-06:46/9	06:57		07:44		07:36	08:04-08:17/13	08:26	08:57-09:04/7
	22:04		21:33	07:09-07:25/16	20:33		19:25		17:21		16:42	
2	05:34		06:10	06:39-06:46/7	06:59		07:46		07:38	08:06-08:17/11	08:27	08:59-09:05/6
	22:04		21:32	07:07-07:26/19	20:31		19:23		17:19		16:41	
3	05:35		06:12	06:40-06:44/4	07:00	07:26-07:27/1	07:48		07:40	08:07-08:16/9	08:29	09:00-09:04/4
	22:03		21:30	07:07-07:28/21	20:29		19:21		17:17		16:41	
4	05:36		06:13	06:41-06:43/2	07:02		07:49		07:42	08:09-08:16/7	08:30	09:02-09:05/3
	22:03		21:29	07:05-07:28/23	20:26		19:19		17:16		16:40	
5	05:37		06:15	07:05-07:30/25	07:03		07:51		07:43	08:11-08:17/6	08:31	09:03-09:04/1
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:37		06:16	07:04-07:30/26	07:05		07:52		07:45	08:13-08:19/6	08:33	
	22:02		21:25		20:22		19:14		17:12		16:39	
7	05:38		06:18	07:04-07:31/27	07:06		07:54		07:47	08:15-08:20/5	08:34	
	22:01		21:23		20:20		19:12		17:10		16:39	
8	05:39		06:19	07:03-07:31/28	07:08		07:56		07:49	08:17-08:22/5	08:35	
	22:01		21:22		20:18		19:10		17:09		16:39	
9	05:40		06:21	06:49-06:54/5	07:10		07:57		07:50	08:19-08:23/4	08:36	
	22:00		21:20	07:02-07:31/29	20:15		19:07		17:07		16:38	
10	05:41		06:23	06:50-06:55/5	07:11		07:59		07:52	08:21-08:24/3	08:37	
	22:00		21:18	07:02-07:31/29	20:13		19:05		17:06		16:38	
11	05:42		06:24	06:51-06:55/4	07:13		08:01		07:54	08:23-08:24/1	08:38	
	21:59		21:16	07:01-07:31/30	20:11		19:03		17:04		16:38	
12	05:43		06:26	06:53-06:55/2	07:14		08:02		07:55		08:39	
	21:58		21:14	07:02-07:31/29	20:08		19:01		17:03		16:38	
13	05:44		06:27	06:54-06:55/1	07:16	07:41-07:42/1	08:04		07:57		08:40	
	21:57		21:12	07:01-07:31/30	20:06		18:59		17:01		16:38	
14	05:45		06:29	07:02-07:31/29	07:17		08:06		07:59		08:41	
	21:56		21:10		20:04		18:57		17:00		16:38	
15	05:46		06:30	07:01-07:30/29	07:19		08:07		08:01		08:42	
	21:55		21:09		20:02		18:54		16:58		16:38	
16	05:47		06:32	07:02-07:30/28	07:20		08:09		08:02		08:43	
	21:54		21:07		19:59		18:52		16:57		16:38	
17	05:49		06:33	07:02-07:29/27	07:22		08:11		08:04		08:44	
	21:53		21:05		19:57		18:50		16:56		16:38	
18	05:50	06:34-06:41/7	06:35	07:03-07:28/25	07:24	07:49-07:53/4	08:12		08:06	08:49-08:55/6	08:44	
	21:52		21:03		19:55		18:48		16:54		16:39	
19	05:51	06:32-06:42/10	06:37	07:04-07:26/22	07:25	07:50-07:54/4	08:14		08:07	08:48-08:57/9	08:45	
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52	06:32-06:44/12	06:38	07:05-07:26/21	07:27	07:52-07:55/3	08:16		08:09	08:47-08:59/12	08:46	
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54	06:31-06:45/14	06:40	07:06-07:23/17	07:28	08:05-08:10/5	08:17		08:11	08:47-09:00/13	08:46	
	21:49		20:57		19:48	07:53-07:54/1	18:42		16:51		16:40	
22	05:55	06:30-06:45/15	06:41	07:09-07:21/12	07:30	08:02-08:12/10	08:19		08:12	08:47-09:01/14	08:47	
	21:48		20:54		19:46		18:40		16:50		16:40	
23	05:56	06:30-06:46/16	06:43		07:32	08:00-08:13/13	08:21		08:14	08:46-09:01/15	08:47	
	21:46		20:52		19:43		18:38		16:49		16:41	
24	05:58	06:29-06:46/17	06:44		07:33	07:59-08:14/15	08:23		08:15	08:46-09:02/16	08:48	
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59	06:29-06:47/18	06:46		07:35	07:59-08:14/15	07:24		08:17	08:48-09:03/15	08:48	
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00	06:29-06:47/18	06:48		07:36	08:01-08:14/13	07:26		08:19	08:49-09:03/14	08:49	
	21:42		20:46		19:37		17:32		16:46		16:43	
27	06:02	06:30-06:47/17	06:49		07:38	08:03-08:14/11	07:28	08:07-08:10/3	08:20	08:51-09:04/13	08:49	
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:32-06:48/16	06:51		07:39	08:04-08:12/8	07:29	08:04-08:13/9	08:22	08:53-09:04/11	08:49	
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:33-06:47/14	06:52		07:41	08:06-08:12/6	07:31	08:03-08:15/12	08:23	08:54-09:04/10	08:49	
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:34-06:47/13	06:54		07:43	08:07-08:09/2	07:33	08:02-08:16/14	08:24	08:56-09:04/8	08:49	
	21:37	07:14-07:20/6	20:37		19:28		17:24		16:43		16:46	
31	06:07	06:36-06:47/11	06:55				07:35	08:02-08:17/15			08:49	
	21:35	07:11-07:23/12	20:35				17:23				16:47	
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker		216		581		112		53		226		21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:43/23	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06 19:41-20:01/20	21:50
2	08:49 09:20-09:43/23	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08 19:42-19:59/17	21:51
3	08:49 09:27-09:44/17	08:21	07:28	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:26/6	17:38	18:28	20:20	21:09 19:44-19:56/12	21:52
4	08:49 09:27-09:43/16	08:19	07:26	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:26/7	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:26/7	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:26/8	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:26/8	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:40-07:42/2	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:26/9	17:47	18:37	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-07:43/5	07:05 19:51-19:59/8	06:06 06:35-07:06/31	05:31
	16:57 09:19-09:26/7	17:49	18:38	20:30 08:19-09:09/50	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-07:41/6	07:03 19:47-20:03/16	06:04 06:36-07:05/29	05:31
	16:59 09:20-09:25/5	17:51	18:40	20:32 08:20-09:08/48	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-07:41/8	07:01 19:43-20:04/21	06:03 06:38-07:05/27	05:31
	17:00 09:22-09:23/1	17:53	18:42	20:33 08:19-09:06/47	21:22	21:59
12	08:46	08:06	07:08 07:31-07:39/8	06:59 19:41-20:06/25	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44	20:35 08:20-09:05/45	21:23	22:00
13	08:45	08:04	07:06	06:57 19:40-20:07/27	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37 08:21-09:03/42	21:25	22:01
14	08:44	08:02 08:26-08:30/4	07:04	06:54 19:39-20:08/29	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38 08:22-09:02/40	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:50-07:57/7	06:52 19:38-20:09/31	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40 08:23-09:00/37	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:43-08:03/20	06:50 19:37-20:09/32	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42 08:25-08:58/33	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 19:36-20:09/33	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43 08:26-08:55/29	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 19:36-20:10/34	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45 08:28-08:53/25	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 19:35-20:10/35	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47 08:31-08:49/18	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 19:35-20:10/35	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48 08:37-08:43/6	21:35	22:04
21	08:38	07:49 08:14-08:35/21	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50 19:35-20:09/34	21:37	22:04
22	08:37	07:47 08:14-08:35/21	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51 19:35-20:09/34	21:38	22:04
23	08:36	07:44 08:14-08:34/20	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53 19:35-20:09/34	21:39	22:05
24	08:35	07:42 08:15-08:33/18	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55 19:35-20:08/33	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56 19:35-20:07/32	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58 19:35-20:07/32	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00 19:36-20:06/30	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01 19:36-20:04/28	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03 19:37-20:03/26	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05 19:39-20:03/24	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	217	211	767	1581	541	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December	
1	05:34		06:09	06:49-07:15/26	06:57	19:42-20:03/21	07:44	08:11-08:17/6	07:36	08:26	09:17-09:22/5
	22:04		21:33		20:33	08:19-09:06/47	19:25		17:21	16:42	
2	05:34		06:10	06:48-07:16/28	06:59	19:45-20:01/16	07:46	08:11-08:19/8	07:38	08:27	09:17-09:25/8
	22:04		21:32		20:31	08:18-09:06/48	19:23		17:19	16:41	09:03-09:08/5
3	05:35		06:12	06:46-07:16/30	07:00	19:49-19:57/8	07:48	08:12-08:19/7	07:40	08:29	09:16-09:26/10
	22:03		21:30		20:29	08:17-09:07/50	19:21		17:17	16:41	09:02-09:09/7
4	05:36		06:13	06:45-07:15/30	07:02	08:16-09:07/51	07:49	08:14-08:20/6	07:42	08:30	09:16-09:28/12
	22:03		21:29		20:26		19:19		17:16	16:40	09:02-09:11/9
5	05:37		06:15	06:45-07:16/31	07:03	08:15-09:08/53	07:51	08:16-08:20/4	07:43	08:31	09:15-09:28/13
	22:03		21:27		20:24		19:16		17:14	16:40	09:03-09:12/9
6	05:37		06:16	06:44-07:15/31	07:05	08:14-09:08/54	07:52	08:17-08:18/1	07:45	08:33	09:15-09:29/14
	22:02		21:25		20:22		19:14		17:12	16:39	09:04-09:12/8
7	05:38		06:18	06:46-07:16/30	07:06	08:14-09:08/54	07:54		07:47	08:34	09:16-09:31/15
	22:01		21:23		20:20		19:12		17:11	16:39	09:06-09:13/7
8	05:39		06:19	06:47-07:15/28	07:08	08:13-09:08/55	07:56		07:49	08:35	09:15-09:31/16
	22:01		21:22		20:18		19:10		17:09	16:39	09:07-09:14/7
9	05:40		06:21	06:49-07:15/26	07:10	08:13-09:08/55	07:57		07:50	08:36	09:15-09:32/17
	22:00		21:20	19:57-20:01/4	20:15		19:07		17:07	16:38	09:08-09:14/6
10	05:41		06:23	06:50-07:13/23	07:11	07:36-07:37/1	07:59		07:52	08:37	09:09-09:32/23
	22:00		21:18	19:53-20:06/13	20:13	08:12-09:08/56	19:05		17:06	16:38	
11	05:42		06:24	06:51-07:12/21	07:13	07:38-07:42/4	08:01		07:54	08:38	09:10-09:33/23
	21:59		21:16	19:50-20:08/18	20:11	08:12-09:08/56	19:03		17:04	16:38	
12	05:43		06:26	06:53-07:12/19	07:14	07:39-07:43/4	08:02		07:55	08:39	09:11-09:33/22
	21:58		21:14	19:49-20:10/21	20:09	08:11-09:07/56	19:01		17:03	16:38	
13	05:44		06:27	06:54-07:10/16	07:16	07:41-07:44/3	08:04		07:57	08:40	09:12-09:34/22
	21:57		21:12	19:46-20:10/24	20:06	08:12-09:07/55	18:59		17:01	16:38	
14	05:45		06:29	06:56-07:08/12	07:17	07:42-07:43/1	08:06	08:55-08:57/2	07:59	08:41	09:13-09:34/21
	21:56		21:10	19:46-20:12/26	20:04	08:11-09:06/55	18:57		17:00	16:38	
15	05:46		06:30	06:57-07:08/11	07:19	08:11-09:06/55	08:07	08:51-09:02/11	08:01	08:42	09:14-09:35/21
	21:55		21:09	19:44-20:12/28	20:02		18:55		16:58	16:38	
16	05:48		06:32	06:59-07:10/11	07:21	08:11-09:04/53	08:09	08:48-09:03/15	08:02	08:43	09:15-09:36/21
	21:54		21:07	19:43-20:13/30	19:59		18:52		16:57	16:38	
17	05:49		06:33	07:00-07:10/10	07:22	08:12-09:04/52	08:11	08:47-09:04/17	08:04	08:44	09:16-09:36/20
	21:53		21:05	19:42-20:13/31	19:57		18:50		16:56	16:38	
18	05:50		06:35	07:02-07:11/9	07:24	08:11-09:02/51	08:12	08:46-09:05/19	08:06	08:44	09:16-09:36/20
	21:52		21:03	19:42-20:14/32	19:55		18:48		16:55	16:39	
19	05:51		06:37	07:03-07:10/7	07:25	08:12-09:02/50	08:14	08:45-09:06/21	08:07	08:45	09:17-09:37/20
	21:51		21:01	19:40-20:14/34	19:53		18:46		16:53	16:39	
20	05:52		06:38	07:05-07:11/6	07:27	08:13-09:01/48	08:16	08:45-09:06/21	08:09	08:46	09:18-09:38/20
	21:50		20:59	19:40-20:14/34	19:50		18:44		16:52	16:39	
21	05:54		06:40	07:06-07:10/4	07:28	08:14-08:59/45	08:17	08:44-09:05/21	08:11	08:46	09:18-09:38/20
	21:49		20:57	19:39-20:14/35	19:48		18:42		16:51	16:40	
22	05:55	06:59-07:05/6	06:41	07:08-07:09/1	07:30	08:15-08:58/43	08:19	08:45-09:05/20	08:12	08:47	09:19-09:39/20
	21:48		20:54	19:39-20:14/35	19:46		18:40		16:50	16:40	
23	05:56	06:56-07:07/11	06:43	19:39-20:13/34	07:32	08:16-08:56/40	08:21	08:47-09:05/18	08:14	08:47	09:19-09:39/20
	21:46		20:52	08:39-08:48/9	19:43	07:56-08:01/5	18:38		16:49	16:41	
24	05:58	06:54-07:08/14	06:44	19:39-20:13/34	07:33	08:17-08:54/37	08:23	08:49-09:05/16	08:15	08:48	09:19-09:39/20
	21:45		20:50	08:35-08:54/19	19:41	07:58-08:02/4	18:36		16:48	16:41	
25	05:59	06:54-07:10/16	06:46	19:38-20:12/34	07:35	08:18-08:51/33	07:24	07:51-08:04/13	08:17	08:48	09:20-09:40/20
	21:44		20:48	08:31-08:56/25	19:39	07:59-08:02/3	17:34		16:47	16:42	
26	06:00	06:53-07:11/18	06:48	19:39-20:12/33	07:36	08:21-08:49/28	07:26	07:52-08:02/10	08:19	08:49	09:20-09:40/20
	21:42		20:46	08:29-08:59/30	19:37	08:01-08:02/1	17:32		16:46	16:43	
27	06:02	06:52-07:12/20	06:49	19:39-20:11/32	07:38	08:24-08:46/22	07:28	07:54-08:01/7	08:20	08:49	09:20-09:41/21
	21:41		20:44	08:26-09:00/34	19:34		17:30		16:45	16:43	
28	06:03	06:51-07:14/23	06:51	19:39-20:09/30	07:40	08:27-08:41/14	07:29	07:56-07:59/3	08:22	08:49	09:20-09:41/21
	21:40		20:42	08:25-09:02/37	19:32		17:28		16:44	16:44	
29	06:05	06:50-07:14/24	06:52	19:40-20:09/29	07:41		07:31		08:23	08:49	09:20-09:41/21
	21:38		20:40	08:23-09:03/40	19:30		17:26		16:43	16:45	
30	06:06	06:50-07:14/24	06:54	19:40-20:07/27	07:43		07:33		08:24	08:49	09:20-09:42/22
	21:37		20:37	08:22-09:04/42	19:28		17:25		16:43	16:46	
31	06:07	06:50-07:15/25	06:55	19:41-20:05/24			07:35			08:49	09:20-09:42/22
	21:35		20:35	08:20-09:05/45			17:23			16:47	
Potential sun hours	498		451		380		333		269	248	
Sum of minutes with flicker	181		1333		1387		246		0	628	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:32-09:56/24 16:48	08:24 17:35	07:32 08:12-08:18/6 18:25	07:23 20:17	06:20 06:44-06:45/1 21:06 06:47-06:53/6	05:36 06:27-06:48/21 21:50
2	08:49 09:33-09:57/24 16:49	08:22 17:36	07:30 18:26	07:21 20:19	06:18 06:42-06:44/2 21:08	05:35 06:28-06:49/21 21:52
3	08:49 09:33-09:58/25 16:50	08:21 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 06:28-06:48/20 21:53
4	08:49 09:33-09:57/24 16:51	08:19 08:57-09:04/7 17:40	07:26 18:30	07:16 20:22	06:14 21:11	05:34 06:29-06:47/18 21:54
5	08:49 09:34-09:58/24 16:52	08:18 08:53-09:08/15 17:42	07:24 18:32	07:14 20:24	06:13 21:13	05:33 06:30-06:47/17 21:55
6	08:49 09:34-09:58/24 16:54	08:16 08:51-09:10/19 17:44	07:21 18:33	07:12 20:25	06:11 06:36-06:38/2 21:14	05:33 06:30-06:46/16 21:55
7	08:48 09:35-09:59/24 16:55	08:14 08:49-09:11/22 17:45	07:19 18:35	07:10 20:27	06:09 06:34-06:37/3 21:16	05:32 06:31-06:47/16 21:56
8	08:48 09:35-09:58/23 16:56	08:13 08:48-09:13/25 17:47	07:17 18:37	07:08 20:28	06:07 06:32-06:36/4 21:17	05:32 06:31-06:46/15 21:57
9	08:47 09:37-09:59/22 16:57	08:11 08:47-09:14/27 17:49	07:15 18:38	07:05 20:30	06:06 06:31-06:43/12 21:19	05:31 06:33-06:45/12 21:58
10	08:47 09:37-09:59/22 16:59	08:09 08:46-09:15/29 17:51	07:13 07:44-07:47/3 18:40	07:03 20:32	06:04 06:29-06:44/15 21:20	05:31 06:34-06:45/11 21:59
11	08:46 09:37-09:59/22 17:00	08:08 08:45-09:16/31 17:53	07:10 07:39-07:52/13 18:42	07:01 07:24-07:25/1 20:33	06:02 06:28-06:46/18 21:22	05:30 06:35-06:45/10 22:00
12	08:46 09:39-09:59/20 17:02	08:06 08:45-09:16/31 17:54	07:08 07:36-07:55/19 18:44	06:59 07:21-07:24/3 20:35	06:01 06:26-06:47/21 21:24	05:30 06:35-06:44/9 22:00
13	08:45 09:39-09:59/20 17:03	08:04 08:44-09:17/33 17:56	07:06 07:34-07:55/21 18:45	06:57 07:19-07:24/5 20:37	05:59 06:25-06:48/23 21:25	05:30 06:36-06:43/7 22:01
14	08:44 09:40-09:59/19 17:04	08:02 08:44-09:17/33 17:58 08:26-08:28/2	07:04 07:32-07:56/24 18:47	06:54 07:17-07:23/6 20:38	05:58 06:25-06:48/23 21:27	05:30 06:38-06:43/5 22:01
15	08:44 09:41-09:58/17 17:06	08:00 08:43-09:17/34 18:00 08:24-08:30/6	07:01 07:31-07:57/26 18:49	06:52 07:15-07:21/6 20:40	05:56 06:25-06:49/24 21:28	05:30 06:39-06:42/3 22:02
16	08:43 09:42-09:58/16 17:08	07:58 08:43-09:17/34 18:02 08:22-08:31/9	06:59 07:30-07:58/28 18:50	06:50 20:42	05:55 06:25-06:50/25 21:30	05:29 22:02
17	08:42 09:44-09:57/13 17:09	07:56 08:43-09:17/34 18:03 08:20-08:31/11	06:57 07:29-07:58/29 18:52	06:48 20:43	05:53 06:24-06:49/25 21:31	05:29 22:03
18	08:41 09:46-09:55/9 17:11	07:54 08:43-09:17/34 18:05 08:18-08:32/14	06:55 07:29-07:58/29 18:54	06:46 20:45	05:52 06:24-06:50/26 21:32	05:29 22:03
19	08:40 09:50-09:53/3 17:12	07:53 08:44-09:16/32 18:07 08:16-08:32/16	06:52 07:28-07:58/30 18:55	06:44 20:47	05:51 06:24-06:50/26 21:34	05:29 22:04
20	08:39 17:14	07:51 08:44-09:16/32 18:09 08:14-08:31/17	06:50 07:28-07:58/30 18:57	06:42 20:48	05:49 06:24-06:51/27 21:35	05:29 22:04
21	08:38 17:16	07:49 08:45-09:15/30 18:11 08:12-08:31/19	06:48 07:28-07:56/28 18:59	06:40 07:03-07:05/2 20:50	05:48 06:23-06:50/27 21:37	05:30 22:04
22	08:37 17:17	07:47 08:45-09:14/29 18:12 08:10-08:30/20	06:46 07:28-07:56/28 19:00	06:38 07:01-07:06/5 20:51	05:47 06:23-06:50/27 21:38	05:30 22:04
23	08:36 17:19	07:45 08:46-09:13/27 18:14 08:08-08:29/21	06:43 07:28-07:55/27 19:02	06:36 06:59-07:06/7 20:53	05:45 06:24-06:50/26 21:39	05:30 22:05
24	08:35 17:21	07:42 08:48-09:11/23 18:16 08:07-08:26/19	06:41 07:28-07:53/25 19:04	06:34 06:57-07:06/9 20:55	05:44 06:24-06:50/26 21:41	05:30 22:05
25	08:33 17:22	07:40 08:49-09:10/21 18:18 08:08-08:25/17	06:39 07:29-07:52/23 19:05	06:32 06:55-07:06/11 20:56	05:43 06:24-06:50/26 21:42	05:31 22:05
26	08:32 17:24	07:38 08:51-09:07/16 18:19 08:08-08:24/16	06:37 07:31-07:50/19 19:07	06:30 06:53-07:05/12 20:58	05:42 06:24-06:50/26 21:43	05:31 22:05
27	08:31 17:26	07:36 08:55-09:04/9 18:21 08:09-08:23/14	06:34 07:32-07:48/16 19:09	06:28 06:51-07:04/13 21:00	05:41 06:25-06:50/25 21:45	05:31 22:05
28	08:30 17:27	07:34 08:10-08:20/10 18:23	06:32 07:34-07:44/10 19:10	06:26 06:50-07:03/13 21:01	05:40 06:25-06:49/24 21:46	05:32 06:41-06:45/4 22:05
29	08:28 17:29	 	07:30 20:12	06:24 06:48-07:02/14 21:03	05:39 06:26-06:50/24 21:47	05:32 06:40-06:46/6 22:05
30	08:27 17:31	 	07:28 20:14	06:22 06:46-06:55/9 21:05	05:38 06:26-06:50/24 21:48	05:33 06:40-06:48/8 22:04
31	08:25 17:33	 	07:25 20:15	 	05:37 06:27-06:49/22 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	375	838	434	116	560	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:24/1 20:33	07:44 08:14-08:34/20 19:25	07:36 08:16-08:44/28 17:21	08:26 09:19-09:41/22 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:17-08:32/15 19:23	07:38 08:17-08:44/27 17:19	08:27 09:20-09:42/22 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:19-08:28/9 19:21	07:40 08:17-08:42/25 17:17	08:29 09:20-09:42/22 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 19:19	07:42 08:19-08:41/22 17:16	08:30 09:20-09:43/23 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 19:16	07:43 08:21-08:39/18 17:14	08:31 09:20-09:44/24 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 19:14	07:45 08:23-08:37/14 17:12	08:33 09:20-09:44/24 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 19:12	07:47 08:27-08:33/6 17:11	08:34 09:21-09:45/24 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 09:21-09:45/24 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 17:07	08:36 09:21-09:46/25 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 09:22-09:46/24 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 09:22-09:46/24 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 19:01	07:56 17:03	08:39 09:22-09:47/25 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:44-08:52/8 18:59	07:57 17:01	08:40 09:23-09:47/24 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:42-08:54/12 18:57	07:59 17:00	08:41 09:23-09:48/25 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 09:25-09:38/13 18:54 08:41-08:56/15	08:01 16:58	08:42 09:24-09:48/24 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 09:22-09:39/17 18:52 08:39-08:56/17	08:02 16:57	08:43 09:25-09:49/24 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:39-08:56/17	08:04 16:56	08:44 09:25-09:50/25 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:39-08:59/20	08:06 16:55	08:45 09:25-09:49/24 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-09:00/20	08:07 16:53	08:45 09:26-09:50/24 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-09:02/20	08:09 16:52	08:46 09:27-09:51/24 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:06-07:11/5 20:57	07:28 08:14-08:41/27 19:48	08:17 09:15-09:46/31 18:42 08:43-09:01/18	08:11 16:51	08:46 09:27-09:51/24 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:08-07:10/2 20:55	07:30 08:13-08:42/29 19:46	08:19 09:14-09:46/32 18:40 08:45-09:02/17	08:12 16:50	08:47 09:28-09:52/24 16:40
23	05:56 06:34-07:00/26 21:46	06:43 20:52	07:32 08:12-08:41/29 19:43	08:21 09:14-09:47/33 18:38 08:47-09:02/15	08:14 09:26-09:28/2 16:49	08:48 09:28-09:52/24 16:41
24	05:58 06:34-07:00/26 21:45	06:44 20:50	07:33 08:12-08:41/29 19:41	08:23 09:14-09:47/33 18:36 08:49-09:02/13	08:15 09:23-09:32/9 16:48	08:48 09:28-09:52/24 16:41
25	05:59 06:34-07:01/27 21:44	06:46 20:48	07:35 08:11-08:40/29 19:39	07:24 08:14-08:47/33 17:34 07:51-08:02/11	08:17 09:22-09:35/13 16:47	08:48 09:29-09:53/24 16:42
26	06:00 06:34-07:00/26 21:42	06:48 20:46	07:36 08:11-08:40/29 19:37	07:26 08:14-08:47/33 17:32 07:53-08:01/8	08:19 09:21-09:36/15 16:46	08:49 09:29-09:53/24 16:43
27	06:02 06:34-07:00/26 21:41	06:49 20:44	07:38 08:12-08:40/28 19:34	07:28 08:13-08:46/33 17:30 07:54-07:59/5	08:20 09:20-09:37/17 16:45	08:49 09:29-09:54/25 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:23/6 20:42	07:40 08:12-08:38/26 19:32	07:29 08:13-08:46/33 17:28 07:56-07:57/1	08:22 09:20-09:39/19 16:44	08:49 09:30-09:54/24 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:24/6 20:40	07:41 08:13-08:38/25 19:30	07:31 08:14-08:46/32 17:26	08:23 09:20-09:39/19 16:43	08:49 09:30-09:55/25 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:25/5 20:38	07:43 08:13-08:36/23 19:28	07:33 08:14-08:46/32 17:24	08:25 09:20-09:41/21 16:43	08:49 09:31-09:55/24 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:24/3 20:35		07:35 08:15-08:45/30 17:23		08:49 09:31-09:56/25 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	195	390	751	255	744

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:08-10:30/22 16:48	08:24 09:00-09:29/29 17:35	07:32 18:25	07:23 07:48-07:54/6 20:17	06:20 21:06	05:36 21:09-21:19/10 21:50
2	08:49 10:09-10:30/21 16:49	08:22 09:00-09:29/29 17:36	07:30 18:26	07:21 07:51-08:00/9 20:19 07:43-07:46/3	06:18 21:08	05:36 21:08-21:19/11 21:52
3	08:49 10:10-10:30/20 16:50	08:21 08:59-09:29/30 17:38	07:28 18:28	07:19 07:41-08:03/22 20:20	06:16 21:09	05:35 21:08-21:21/13 21:53
4	08:49 10:10-10:29/19 16:51	08:19 09:00-09:30/30 17:40	07:26 18:30	07:16 07:39-08:06/27 20:22	06:15 21:11	05:34 21:07-21:21/14 21:54
5	08:49 10:12-10:30/18 16:52	08:18 09:00-09:30/30 17:42	07:24 18:32	07:14 07:37-08:07/30 20:24	06:13 21:13	05:33 21:07-21:23/16 21:55
6	08:49 10:12-10:29/17 16:54	08:16 09:00-09:30/30 17:44	07:21 18:33	07:12 07:34-08:07/33 20:25	06:11 21:14	05:33 21:07-21:23/16 21:55
7	08:48 10:14-10:28/14 16:55	08:14 09:00-09:30/30 17:45	07:19 18:35	07:10 07:32-08:08/36 20:27	06:09 06:34-06:35/1 21:16	05:32 06:01-06:02/1 21:56 21:07-21:24/17
8	08:48 10:15-10:27/12 16:56	08:13 09:01-09:30/29 17:47	07:17 18:37	07:08 07:32-08:09/37 20:28	06:08 06:32-06:33/1 21:17	05:32 06:01-06:03/2 21:57 21:06-21:24/18
9	08:47 10:18-10:26/8 16:57	08:11 09:01-09:30/29 17:49	07:15 18:38	07:05 07:33-08:09/36 20:30 07:28-07:30/2	06:06 21:19	05:31 06:00-06:03/3 21:58 21:07-21:26/19
10	08:47 16:59	08:09 09:02-09:29/27 17:51	07:13 18:40	07:03 07:34-08:09/35 20:32 07:26-07:31/5	06:04 21:20	05:31 06:00-06:04/4 21:59 21:07-21:27/20
11	08:46 17:00	08:08 09:02-09:28/26 17:53	07:10 18:42	07:01 07:37-08:09/32 20:33 07:24-07:31/7	06:03 21:22	05:30 06:00-06:04/4 22:00 21:06-21:27/21
12	08:46 17:02	08:06 09:03-09:27/24 17:54	07:08 18:44	06:59 07:35-08:08/33 20:35 07:21-07:30/9	06:01 21:24	05:30 05:59-06:04/5 22:00 21:06-21:27/21
13	08:45 17:03	08:04 09:04-09:25/21 17:56	07:06 18:45	06:57 07:35-08:08/33 20:37 07:19-07:29/10	05:59 21:25	05:30 05:59-06:05/6 22:01 21:07-21:28/21
14	08:44 17:05	08:02 09:06-09:24/18 17:58	07:04 18:47	06:55 07:35-08:08/33 20:38 07:17-07:28/11	05:58 21:27	05:30 05:59-06:05/6 22:01 21:07-21:29/22
15	08:44 17:06	08:00 09:08-09:21/13 18:00	07:01 18:49	06:52 07:35-08:07/32 20:40 07:18-07:26/8	05:56 21:28	05:30 05:59-06:05/6 22:02 21:07-21:29/22
16	08:43 17:08	07:58 09:12-09:17/5 18:02	06:59 18:50	06:50 07:35-08:07/32 20:42	05:55 21:30	05:29 05:59-06:06/7 22:02 21:07-21:30/23
17	08:42 09:10-09:12/2 17:09	07:56 18:03	06:57 18:52	06:48 07:36-08:06/30 20:43	05:53 21:31	05:29 05:59-06:06/7 22:03 21:07-21:30/23
18	08:41 09:09-09:13/4 17:11	07:54 18:05	06:55 18:54	06:46 07:36-08:05/29 20:45	05:52 21:32	05:29 05:59-06:06/7 22:03 21:07-21:30/23
19	08:40 09:08-09:14/6 17:12	07:53 18:07	06:52 18:55	06:44 07:07-07:09/2 20:47 07:37-08:04/27	05:51 21:34	05:29 05:59-06:06/7 22:04 21:08-21:30/22
20	08:39 09:07-09:15/8 17:14	07:51 18:09	06:50 18:57	06:42 07:05-07:08/3 20:48 07:38-08:02/24	05:49 21:35	05:29 05:59-06:07/8 22:04 21:08-21:30/22
21	08:38 09:05-09:15/10 17:16	07:49 18:11	06:48 18:59	06:40 07:03-07:06/3 20:50 07:39-08:00/21	05:48 21:37	05:30 05:59-06:07/8 22:04 21:08-21:30/22
22	08:37 09:04-09:16/12 17:17	07:47 18:12	06:46 19:00	06:38 07:01-07:03/2 20:51 07:40-07:58/18	05:47 21:38	05:30 06:00-06:08/8 22:04 21:08-21:30/22
23	08:36 09:03-09:17/14 17:19	07:45 18:14	06:43 19:02	06:36 06:59-07:03/4 20:53 07:43-07:55/12	05:45 21:39	05:30 06:00-06:07/7 22:05 21:09-21:31/22
24	08:35 09:02-09:18/16 17:21	07:42 18:16	06:41 19:04	06:34 06:57-07:02/5 20:55 07:48-07:49/1	05:44 21:41	05:30 06:00-06:07/7 22:05 21:08-21:31/23
25	08:33 09:00-09:21/21 17:22	07:40 18:18	06:39 19:05	06:32 06:55-07:02/7 20:56	05:43 21:42	05:31 06:01-06:08/7 22:05 21:08-21:31/23
26	08:32 08:59-09:23/24 17:24	07:38 18:19	06:37 19:07	06:30 06:53-07:01/8 20:58	05:42 21:43	05:31 06:01-06:08/7 22:05 21:09-21:32/23
27	08:31 08:57-09:24/27 17:26	07:36 18:21	06:34 19:09	06:28 06:51-07:00/9 21:00	05:41 21:45	05:31 06:02-06:09/7 22:05 21:09-21:31/22
28	08:30 08:57-09:25/28 17:27	07:34 18:23	06:32 06:55-06:58/3 19:10	06:26 06:51-07:00/9 21:01	05:40 21:46	05:32 06:02-06:08/6 22:05 21:10-21:32/22
29	08:28 08:57-09:26/29 17:29		07:30 07:52-07:57/5 20:12	06:24 06:53-06:58/5 21:03	05:39 21:47	05:32 06:03-06:09/6 22:05 21:10-21:31/21
30	08:27 08:58-09:27/29 17:31		07:28 07:50-07:56/6 20:14	06:22 21:05	05:38 21:12-21:17/5 21:48	05:33 06:03-06:08/5 22:04 21:10-21:32/22
31	08:25 08:58-09:28/30 17:33		07:25 07:48-07:56/8 20:15		05:37 21:10-21:18/8 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	411	400	22	740	15	737

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26
	22:04 21:10-21:31/21	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27
	22:04 21:11-21:31/20	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 10:01-10:09/8
	22:03 21:12-21:31/19	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 10:01-10:12/11
	22:03 21:12-21:31/19	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15 06:43-06:44/1	07:03 07:29-08:05/36	07:51	07:43 08:29-09:00/31	08:31 09:59-10:13/14
	22:03 21:12-21:30/18	21:27	20:24	19:16	17:14	16:40
6	05:37 21:13-21:30/17	06:16 06:44-06:45/1	07:05 07:30-08:03/33	07:52	07:45 08:30-09:00/30	08:33 09:59-10:15/16
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:14-21:29/15	06:18	07:06 07:32-08:02/30	07:54	07:47 08:30-09:00/30	08:34 09:59-10:17/18
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 21:14-21:29/15	06:19	07:08 07:33-08:00/27	07:56	07:49 08:30-09:00/30	08:35 09:59-10:17/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:15-21:28/13	06:21	07:10 07:35-07:58/23	07:57	07:50 08:31-09:00/29	08:36 09:58-10:18/20
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 21:16-21:28/12	06:23	07:11 07:43-07:54/11	07:59	07:52 08:31-09:00/29	08:37 09:58-10:19/21
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 21:17-21:27/10	06:24	07:13 07:40-07:46/6	08:01	07:54 08:30-09:00/30	08:38 09:58-10:20/22
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 21:18-21:27/9	06:26	07:14 07:39-07:47/8	08:02	07:56 08:29-08:58/29	08:39 09:58-10:20/22
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 21:20-21:26/6	06:27	07:16 07:41-07:48/7	08:04	07:57 08:29-08:58/29	08:40 09:58-10:21/23
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 21:23-21:25/2	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 08:29-08:57/28	08:41 09:59-10:22/23
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30 06:57-07:07/10	07:19 07:44-07:47/3	08:07	08:01 08:30-08:57/27	08:42 09:59-10:23/24
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:45-07:46/1	08:09	08:02 08:32-08:56/24	08:43 09:59-10:24/25
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:08/8	07:22	08:11	08:04 08:34-08:55/21	08:44 10:00-10:24/24
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:08/6	07:24	08:12	08:06 08:36-08:52/16	08:45 10:00-10:24/24
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:08/5	07:25	08:14	08:07 08:37-08:51/14	08:45 10:00-10:25/25
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:09/4	07:27	08:16	08:09 08:39-08:51/12	08:46 10:01-10:26/25
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28	08:17	08:11 08:41-08:51/10	08:46 10:01-10:26/25
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30	08:19	08:12 08:43-08:51/8	08:47 10:02-10:27/25
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14 08:44-08:50/6	08:47 10:02-10:27/25
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33	08:23	08:15 08:46-08:50/4	08:48 10:02-10:27/25
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35	07:24	08:17 08:48-08:50/2	08:48 10:04-10:28/24
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36	07:26 08:41-08:49/8	08:19	08:49 10:04-10:28/24
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38	07:28 08:37-08:51/14	08:20	08:49 10:04-10:29/25
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22	08:49 10:05-10:29/24
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23	08:49 10:05-10:29/24
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25	08:49 10:06-10:29/23
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 10:07-10:29/22
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	212	431	347	114	555	629

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:49	08:24		07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34		18:25		20:17		21:06		21:50	
2	08:49	08:22		07:30		07:21		06:18		05:35	06:04-06:14/10
	16:49	17:36		18:26		20:18		21:08		21:51	
3	08:49	08:21		07:28		07:19		06:16		05:35	06:03-06:14/11
	16:50	17:38		18:28		20:20		21:09		21:52	
4	08:49	08:19		07:26		07:16		06:14		05:34	06:02-06:14/12
	16:51	17:40		18:30		20:22		21:11		21:53	
5	08:49	08:18		07:23	07:46-07:47/1	07:14		06:13		05:33	06:02-06:14/12
	16:52	17:42		18:31		20:23		21:13		21:54	
6	08:49	08:16		07:21	07:44-07:47/3	07:12		06:11		05:33	06:01-06:14/13
	16:53	17:43		18:33		20:25		21:14		21:55	
7	08:48	08:14		07:19	07:42-07:47/5	07:10		06:09		05:32	06:01-06:14/13
	16:55	17:45		18:35		20:27		21:16		21:56	
8	08:48	08:13		07:17	07:40-07:47/7	07:07		06:07		05:32	06:00-06:14/14
	16:56	17:47		18:37		20:28		21:17		21:57	
9	08:47	08:11		07:15	07:37-07:46/9	07:05		06:06		05:31	06:00-06:14/14
	16:57	17:49		18:38		20:30		21:19		21:58	
10	08:47	08:09		07:12	07:35-07:45/10	07:03		06:04		05:31	06:00-06:14/14
	16:59	17:51		18:40		20:32		21:20		21:59	
11	08:46	08:07		07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52		18:42		20:33		21:22		21:59	
12	08:46	08:06		07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54		18:43		20:35		21:23		22:00	
13	08:45	08:04		07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:44	08:02	08:26-08:27/1	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58		18:47		20:38		21:26		22:01	
15	08:44	08:00	08:24-08:27/3	07:01		06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	08:22-08:27/5	06:59		06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01		18:50		20:42		21:29		22:02	
17	08:42	07:56	08:20-08:26/6	06:57		06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03		18:52		20:43		21:31		22:03	
18	08:41	07:54	08:18-08:25/7	06:55		06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05		18:54		20:45		21:32		22:03	
19	08:40	07:52	08:17-08:24/7	06:52	07:15-07:16/1	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07		18:55		20:46		21:34		22:04	
20	08:39	07:50		06:50	07:13-07:16/3	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09		18:57		20:48		21:35		22:04	
21	08:38	07:48		06:48	07:10-07:15/5	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10		18:59		20:50		21:37		22:04	
22	08:37	07:46		06:46	07:08-07:15/7	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12		19:00		20:51		21:38		22:04	
23	08:36	07:44		06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14		19:02		20:53		21:39		22:05	
24	08:35	07:42		06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16		19:04		20:55		21:41		22:05	
25	08:33	07:40		06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18		19:05		20:56		21:42		22:05	
26	08:32	07:38		06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19		19:07		20:58		21:43		22:05	
27	08:31	07:36		06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34		06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29			20:12		21:03		21:47		22:04	
30	08:27			07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31			20:14		21:04		21:48		22:04	
31	08:25			07:25				05:37	06:05-06:13/8		
	17:33			20:15				21:49			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	29		83		23		33		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34	06:04-06:19/15	06:09		06:57		07:44		07:36	08:26
	22:04		21:33		20:33		19:25		17:21	16:42
2	05:34	06:04-06:19/15	06:10		06:58		07:46	08:14-08:22/8	07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35	06:05-06:19/14	06:12		07:00		07:47	08:12-08:23/11	07:40	08:29
	22:03		21:30		20:29		19:21		17:17	16:41
4	05:36	06:06-06:20/14	06:13		07:02		07:49	08:14-08:24/10	07:42	08:30
	22:03		21:29		20:26		19:18		17:15	16:40
5	05:36	06:06-06:19/13	06:15		07:03		07:51	08:16-08:24/8	07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37	06:07-06:20/13	06:16		07:05		07:52	08:17-08:23/6	07:45	08:32
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38	06:08-06:20/12	06:18		07:06		07:54	08:19-08:23/4	07:47	08:34
	22:01		21:23		20:20		19:12		17:10	16:39
8	05:39	06:09-06:21/12	06:19		07:08		07:56	08:21-08:23/2	07:49	08:35
	22:01		21:22		20:17		19:10		17:09	16:39
9	05:40	06:10-06:21/11	06:21		07:09		07:57		07:50	08:36
	22:00		21:20		20:15		19:07		17:07	16:38
10	05:41	06:11-06:21/10	06:22		07:11		07:59		07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42	06:12-06:22/10	06:24		07:13		08:01		07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43	06:13-06:22/9	06:26		07:14		08:02		07:55	08:39
	21:58		21:14		20:08		19:01		17:03	16:38
13	05:44	06:14-06:22/8	06:27		07:16		08:04		07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45	06:15-06:22/7	06:29		07:17		08:06		07:59	08:41
	21:56		21:10		20:04		18:57		17:00	16:38
15	05:46	06:16-06:22/6	06:30		07:19		08:07		08:01	08:42
	21:55		21:08		20:02		18:54		16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09		08:02	08:43
	21:54		21:07		19:59		18:52		16:57	16:38
17	05:49	06:18-06:21/3	06:33		07:22		08:11		08:04	08:44
	21:53		21:05		19:57		18:50		16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:24		08:12		08:06	08:44
	21:52		21:03		19:55		18:48		16:54	16:38
19	05:51		06:36		07:25	07:51-07:58/7	08:14		08:07	08:45
	21:51		21:01		19:52		18:46		16:53	16:39
20	05:52		06:38		07:27	07:52-08:00/8	08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28	07:53-08:00/7	08:17		08:11	08:46
	21:49		20:56		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30	07:55-08:01/6	08:19		08:12	08:47
	21:48		20:54		19:46		18:40		16:50	16:40
23	05:56		06:43	07:09-07:15/6	07:31	07:56-08:00/4	08:21	08:47-08:55/8	08:14	08:47
	21:46		20:52		19:43		18:38		16:49	16:41
24	05:57		06:44	07:11-07:17/6	07:33	07:58-07:59/1	08:22	08:49-08:56/7	08:15	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59		06:46	07:12-07:17/5	07:35		07:24	07:51-07:57/6	08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00		06:47	07:14-07:18/4	07:36		07:26	07:53-07:57/4	08:18	08:49
	21:42		20:46		19:37		17:32		16:46	16:42
27	06:02		06:49	07:15-07:17/2	07:38		07:28	07:54-07:57/3	08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03		06:51		07:39		07:29		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:04		06:52		07:41		07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06		06:54		07:43		07:33		08:24	08:49
	21:37		20:37		19:27		17:24		16:43	16:46
31	06:07		06:55				07:35			08:49
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	178		23		33		77		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:16/1	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:16/4	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50 07:17-07:18/1	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	9	16	0	1	22	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:52-07:04/12	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06 06:44-06:50/6	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:54-07:01/7	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08 06:42-06:48/6	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:47/7	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:40-06:46/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:56/7	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:57/7	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 07:02-07:11/9	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16 06:51-06:57/6	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 07:00-07:13/13	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14 06:53-06:58/5	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-07:14/20	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-07:15/19	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30 06:57-07:15/18	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32 06:59-07:16/17	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33 07:00-07:16/16	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35 07:02-07:16/14	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44 07:07-07:08/1	05:50	05:29 05:59-06:09/10	05:51	06:36 07:03-07:15/12	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42 07:05-07:09/4	05:49	05:29 05:59-06:10/11	05:52	06:38 07:05-07:15/10	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40 07:03-07:09/6	05:48	05:29 05:59-06:10/11	05:54	06:40 07:06-07:14/8	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38 07:01-07:10/9	05:47	05:30 06:00-06:11/11	05:55	06:41 07:08-07:14/6	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36 06:59-07:10/11	05:45	05:30 06:00-06:11/11	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34 06:57-07:10/13	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:09/14	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:09/16	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-07:08/17	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-07:07/18	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-07:07/19	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:51-07:06/15	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05 06:46-06:50/4	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	147	44	230	50	190	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-08:50/2 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:46-08:49/3 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:45-08:50/5 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:43-08:49/6 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:41-08:48/7 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:39-08:47/8 17:45	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:38-08:46/8 17:47	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:36-08:45/9 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:34-08:43/9 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:32-08:41/9 17:53	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 18:50	06:50 07:13-07:14/1 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 18:52	06:48 07:11-07:13/2 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 18:54	06:46 07:09-07:11/2 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 18:55	06:44 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:05-09:28/23 17:17	07:47 08:27-08:33/6 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:06-09:28/22 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:06-09:27/21 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:07-09:27/20 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 09:09-09:27/18 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 09:09-09:25/16 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 09:11-09:25/14 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 09:13-09:22/9 17:29	 	07:30 07:52-08:09/17 20:12	06:24 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 17:31	 	07:28 07:50-08:09/19 20:14	06:22 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 17:33	 	07:25 07:48-08:08/20 20:15	 	05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	321	234	105	82	108	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34	06:04-06:34/30	06:09		06:57		07:44		07:36	08:04-08:13/9	08:26	08:57-09:04/7
	22:04		21:33		20:33		19:25		17:21		16:42	
2	05:34	06:04-06:34/30	06:10		06:59		07:46		07:38	08:06-08:15/9	08:27	08:59-09:05/6
	22:04		21:32		20:31		19:23		17:19		16:41	
3	05:35	06:05-06:34/29	06:12		07:00		07:48		07:40	08:08-08:16/8	08:29	09:00-09:04/4
	22:03		21:30		20:29		19:21		17:17		16:41	
4	05:36	06:06-06:34/28	06:13		07:02		07:49		07:42	08:09-08:17/8	08:30	09:02-09:05/3
	22:03		21:29		20:26		19:19		17:16		16:40	
5	05:37	06:06-06:33/27	06:15		07:03	07:29-07:32/3	07:51		07:43	08:11-08:18/7	08:31	09:03-09:04/1
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:37	06:07-06:33/26	06:16		07:05	07:30-07:32/2	07:52		07:45	08:13-08:19/6	08:33	
	22:02		21:25		20:22		19:14		17:12		16:39	
7	05:38	06:08-06:33/25	06:18		07:06	07:32-07:33/1	07:54		07:47	08:15-08:20/5	08:34	
	22:02		21:23		20:20		19:12		17:10		16:39	
8	05:39	06:09-06:33/24	06:19		07:08	07:45-07:56/11	07:56		07:49	08:17-08:20/3	08:35	
	22:01		21:22		20:18		19:10		17:09		16:39	
9	05:40	06:10-06:33/23	06:21		07:10	07:43-07:58/15	07:57		07:50	08:19-08:20/1	08:36	
	22:00		21:20		20:15		19:07		17:07		16:38	
10	05:41	06:11-06:33/22	06:23		07:11	07:36-07:59/23	07:59		07:52		08:37	
	22:00		21:18		20:13		19:05		17:06		16:38	
11	05:42	06:12-06:32/20	06:24		07:13	07:38-08:00/22	08:01		07:54		08:38	
	21:59		21:16		20:11		19:03		17:04		16:38	
12	05:43	06:13-06:32/19	06:26		07:14	07:39-07:59/20	08:02		07:55		08:39	
	21:58		21:14		20:09		19:01		17:03		16:38	
13	05:44	06:14-06:31/17	06:27		07:16	07:41-08:00/19	08:04		07:57	08:45-08:54/9	08:40	
	21:57		21:12		20:06		18:59		17:01		16:38	
14	05:45	06:15-06:30/15	06:29		07:17	07:42-07:59/17	08:06		07:59	08:43-08:57/14	08:41	
	21:56		21:10		20:04		18:57		17:00		16:38	
15	05:46	06:16-06:29/13	06:30		07:19	07:44-07:59/15	08:07		08:01	08:42-08:58/16	08:42	
	21:55		21:09		20:02		18:54		16:58		16:38	
16	05:47	06:17-06:28/11	06:32		07:20	07:45-07:58/13	08:09		08:02	08:42-09:00/18	08:43	
	21:54		21:07		19:59		18:52		16:57		16:38	
17	05:49	06:18-06:26/8	06:33		07:22	07:47-07:58/11	08:11		08:04	08:41-09:01/20	08:44	
	21:53		21:05		19:57		18:50		16:56		16:38	
18	05:50	06:19-06:23/4	06:35		07:24	07:48-07:56/8	08:12		08:06	08:40-09:01/21	08:44	
	21:52		21:03		19:55		18:48		16:54		16:39	
19	05:51		06:37		07:25	07:50-07:55/5	08:14		08:07	08:40-09:02/22	08:45	
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52		06:38		07:27	07:52-07:53/1	08:16	08:57-09:05/8	08:09	08:40-09:03/23	08:46	
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54		06:40		07:28		08:17	08:54-09:07/13	08:11	08:41-09:03/22	08:46	
	21:49		20:57		19:48		18:42		16:51		16:40	
22	05:55		06:41		07:30		08:19	08:52-09:09/17	08:12	08:43-09:04/21	08:47	
	21:48		20:54		19:46		18:40		16:50		16:40	
23	05:56		06:43		07:32		08:21	08:51-09:10/19	08:14	08:44-09:03/19	08:47	
	21:46		20:52		19:43		18:38		16:49		16:41	
24	05:58	06:29-06:32/3	06:44		07:33		08:23	08:51-09:11/20	08:15	08:46-09:04/18	08:48	
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59	06:28-06:34/6	06:46	07:12-07:14/2	07:35		07:24	07:51-08:11/20	08:17	08:48-09:05/17	08:48	
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00	06:29-06:35/6	06:48	07:14-07:16/2	07:36		07:26	07:53-08:11/18	08:19	08:49-09:04/15	08:49	
	21:42		20:46		19:37		17:32		16:46		16:43	
27	06:02	06:30-06:36/6	06:49	07:15-07:16/1	07:38		07:28	07:54-08:11/17	08:20	08:51-09:05/14	08:49	
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:32-06:37/5	06:51		07:39		07:29	07:56-08:11/15	08:22	08:53-09:05/12	08:49	
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:33-06:37/4	06:52		07:41		07:31	07:58-08:10/12	08:23	08:54-09:05/11	08:49	
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:34-06:37/3	06:54		07:43		07:33	08:00-08:10/10	08:24	08:56-09:05/9	08:49	
	21:37		20:37		19:28		17:24		16:43		16:46	
31	06:07	06:36-06:38/2	06:55				07:35	08:02-08:11/9			08:49	
	21:35		20:35				17:23				16:47	
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker		406		5		186		178		357		21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23 07:45-07:48/3	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21 07:43-07:46/3	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00 07:26-07:28/2	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:28/1	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:31/1	06:07	05:32	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:30/2	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11 07:36-07:39/3	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13 07:38-07:41/3	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14 07:39-07:41/2	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45 06:15-06:19/4	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:29	05:46 06:16-06:20/4	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59 07:22-07:23/1	06:50	05:55	05:29	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57 07:19-07:21/2	06:48	05:53	05:29	05:48 06:18-06:21/3	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:21/2	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:22/1	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44 06:11-06:12/1	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43 06:10-06:12/2	05:30	05:59	06:46	07:35	08:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42 06:09-06:12/3	05:31	06:00	06:47	07:36 08:01-08:03/2	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41 06:08-06:11/3	05:31	06:02	06:49	07:38 08:03-08:05/2	07:28	08:20	08:49
	17:26	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40 06:07-06:11/4	05:32	06:03	06:51	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:10/4	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38 06:07-06:09/2	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25 07:48-07:50/2		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	5	9	19	0	20	0	16	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:09	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17 07:42-07:43/1	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30 07:52-07:53/1	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27 07:50-07:51/1	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	2	3	0	0	0	3	2	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:07/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	354	711	1.313	1.567	876	636	560	8.537

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:13/9	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51 06:17-06:33/16	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52 06:19-06:33/14	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:15/12	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53 06:19-06:33/14	22:04 06:30-06:33/3	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:15/13	05:36 06:06-06:23/17	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54 06:19-06:32/13	22:03 06:29-06:35/6	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:16/14	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55 06:20-06:32/12	22:03 06:28-06:36/8	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:16/15	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56 06:21-06:31/10	22:02 06:27-06:37/10	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:17/16	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56 06:22-06:31/9	22:02 06:27-06:38/11	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57 06:23-06:29/6	22:01 06:27-06:39/12	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58 06:24-06:29/5	22:00 06:26-06:40/14	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:18/18	05:41 06:11-06:22/11	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00 06:26-06:40/14	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:00-06:19/19	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59 06:26-06:41/15	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:21/8	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58 06:26-06:42/16	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:20/6	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57 06:25-06:42/17	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:30 06:00-06:19/19	05:45 06:15-06:19/4	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56 06:25-06:43/18	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:29/7	05:29 06:00-06:20/20	05:46 06:25-06:43/18	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:31/10	05:29 06:01-06:20/19	05:47 06:25-06:43/18	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:31/12	05:29 06:01-06:20/19	05:49 06:25-06:44/19	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52 06:18-06:32/14	05:29 06:01-06:20/19	05:50 06:24-06:44/20	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51 06:17-06:33/16	05:29 06:01-06:21/20	05:51 06:24-06:44/20	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:34/18	05:29 06:01-06:21/20	05:52 06:24-06:44/20	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:15-06:33/18	05:30 06:01-06:21/20	05:54 06:25-06:44/19	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47 06:15-06:34/19	05:30 06:02-06:22/20	05:55 06:25-06:44/19	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:15-06:34/19	05:30 06:02-06:22/20	05:56 06:25-06:44/19	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44 06:15-06:34/19	05:30 06:02-06:22/20	05:58 06:26-06:43/17	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43 06:15-06:34/19	05:31 06:03-06:22/19	05:59 06:28-06:43/15	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:15-06:34/19	05:31 06:03-06:22/19	06:00 06:29-06:42/13	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:15-06:34/19	05:31 06:03-06:22/19	06:02 06:30-06:41/11	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:15-06:34/19	05:32 06:03-06:23/20	06:03 06:32-06:41/9	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:07-06:08/1	05:32 06:03-06:22/19	06:05 06:33-06:39/6	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47 06:17-06:34/17	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:11/5	05:33 06:04-06:23/19	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48 06:17-06:34/17	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:12/7		06:07	06:55		07:35		08:50
	17:33		20:15		21:49 06:17-06:34/17		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	296	630	575	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

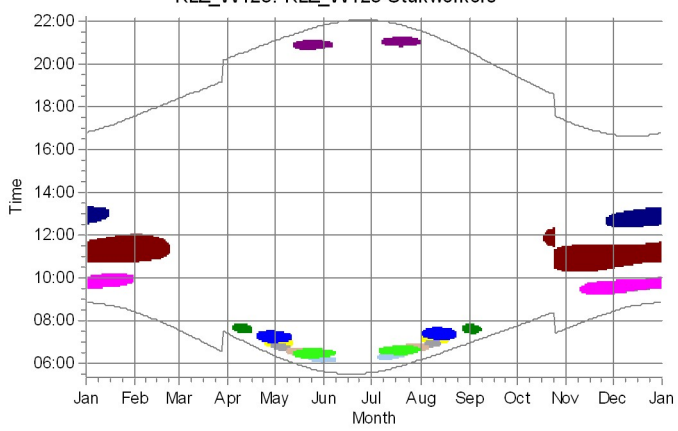
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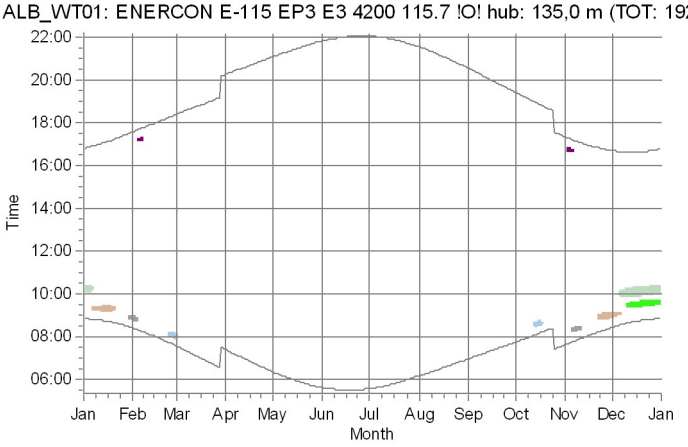
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

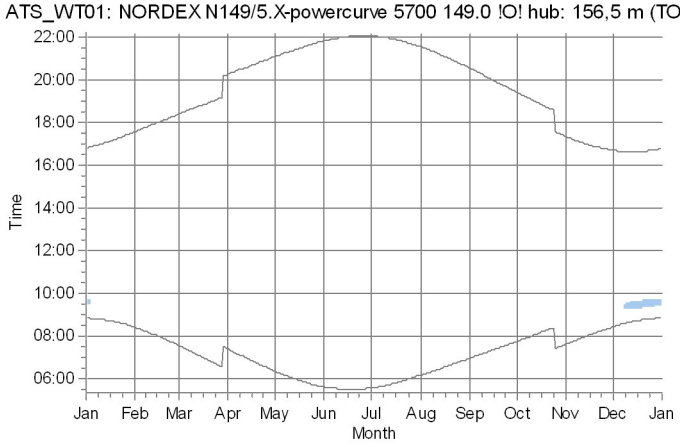
KLZ_WT23: KLZ_WT23 Stukwerkers



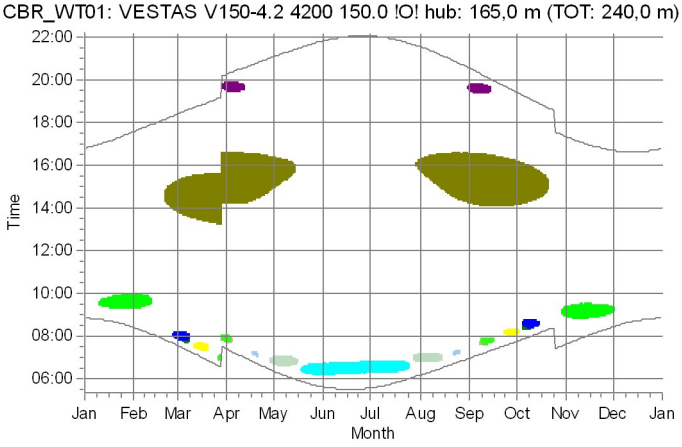
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m)



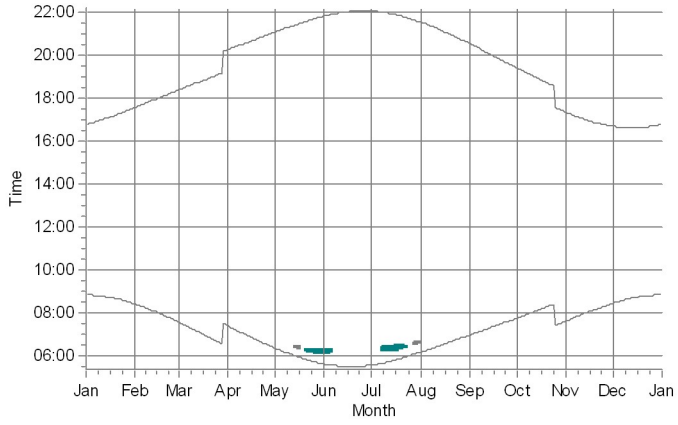
ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TO



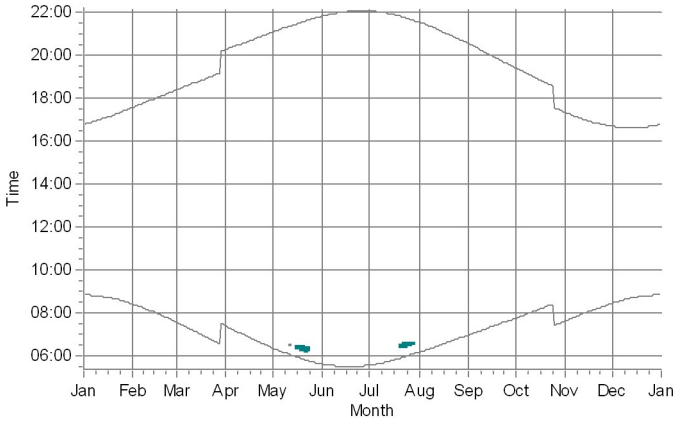
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)



EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200



EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (4



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

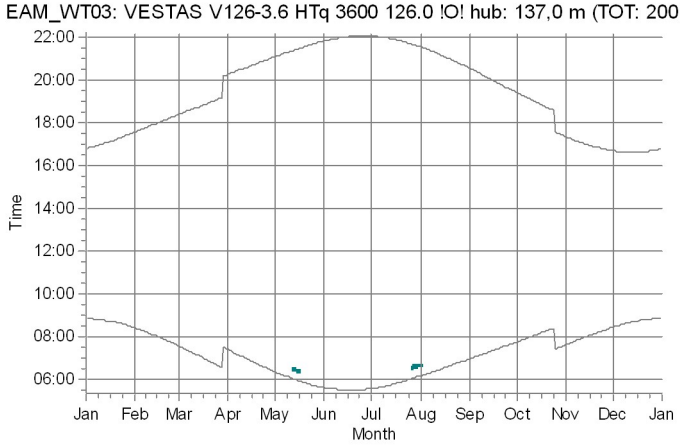
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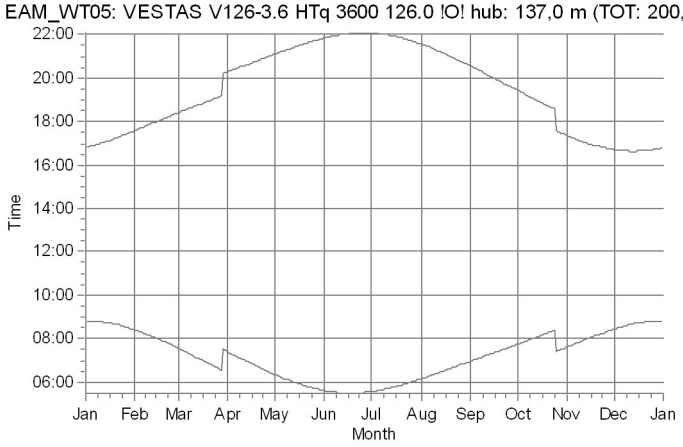
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

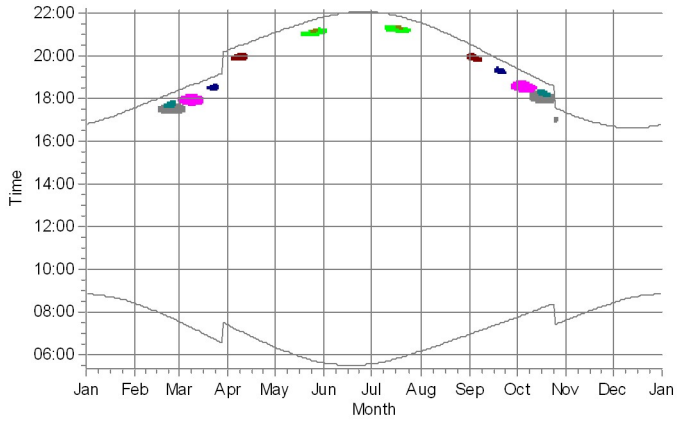
EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200



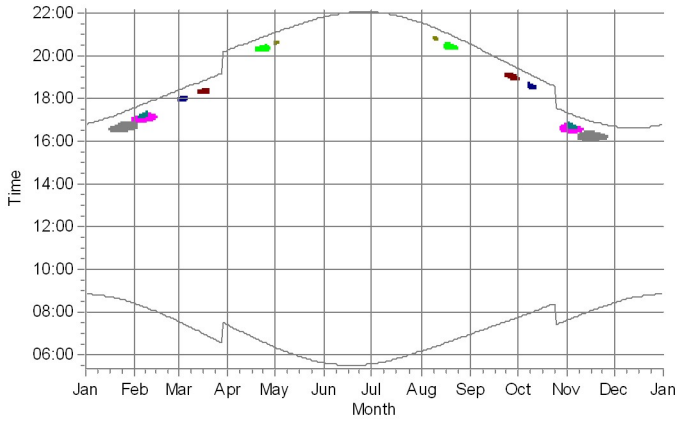
EAM_WT05: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (4



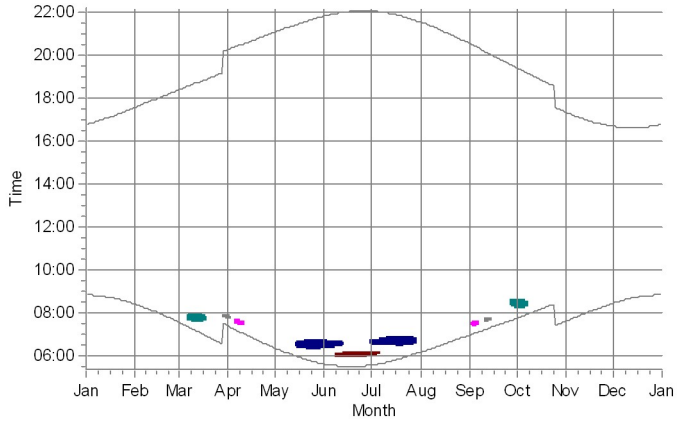
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,



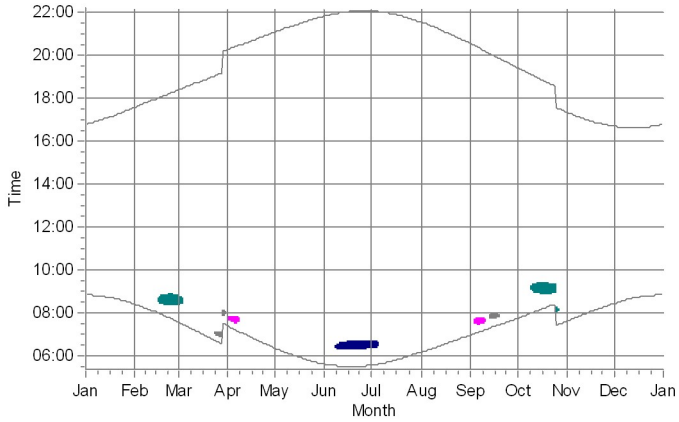
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53



KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3



KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)



Shadow receptors

- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent

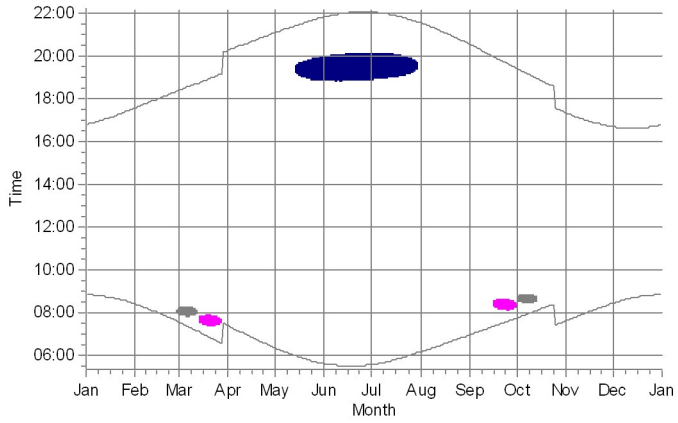
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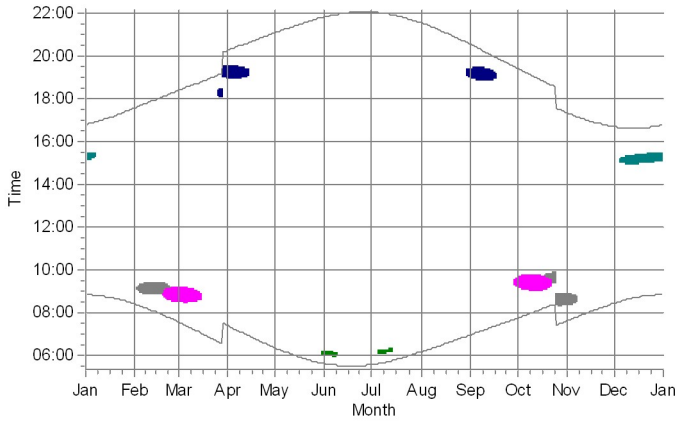
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

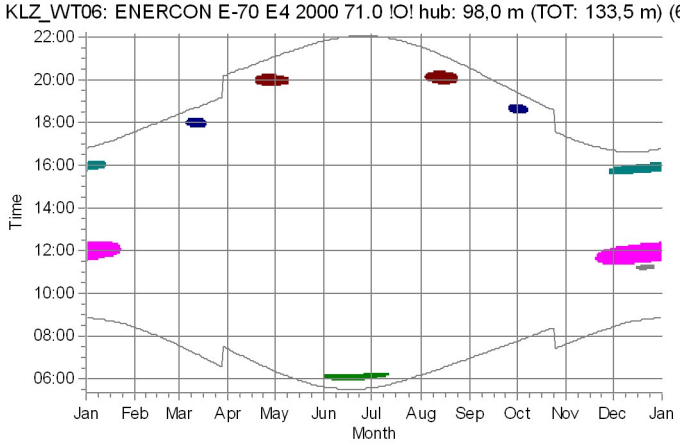
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4



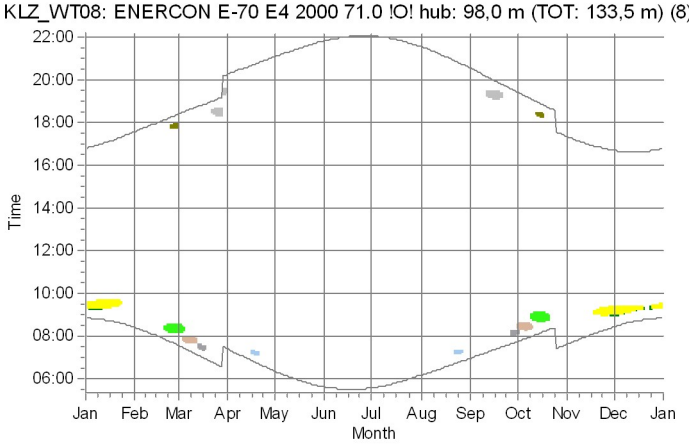
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)



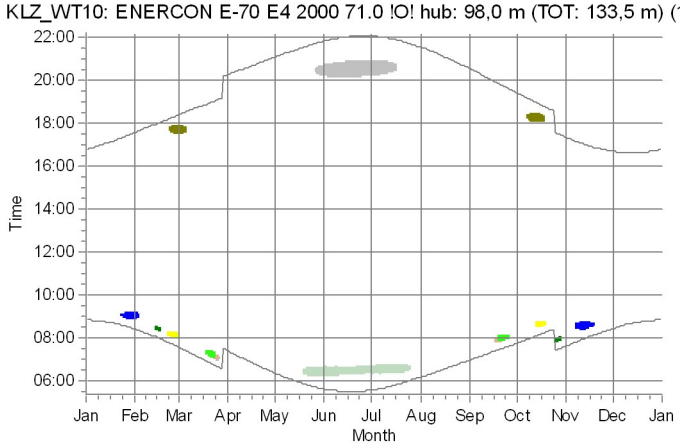
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6



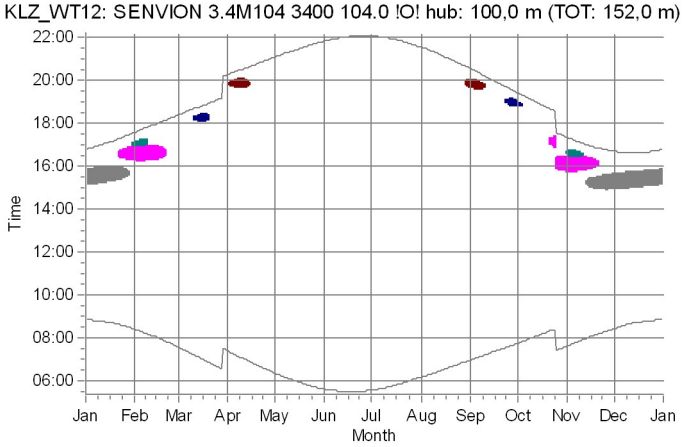
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)



KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1



KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

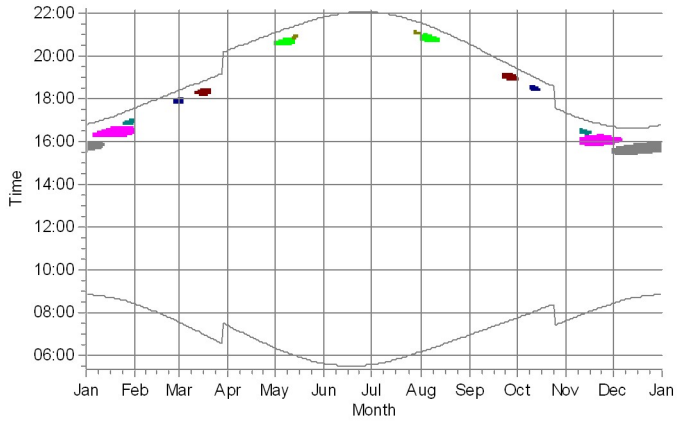
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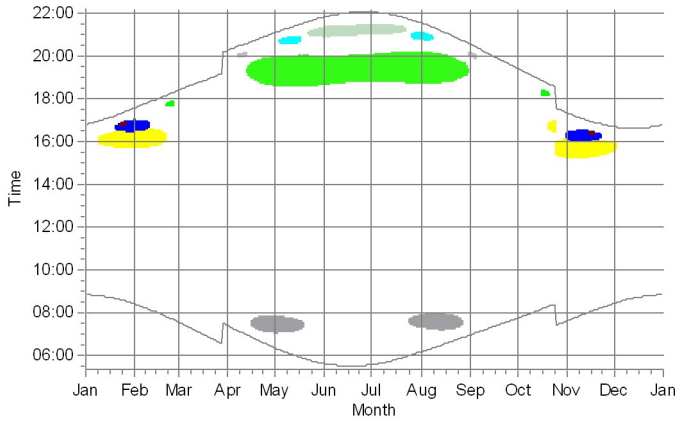
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

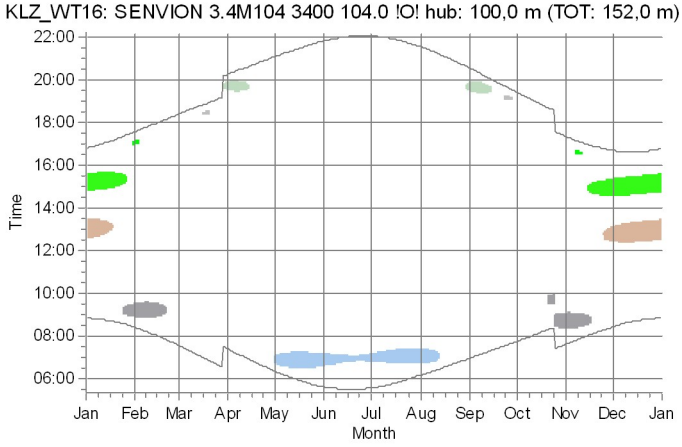
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m)



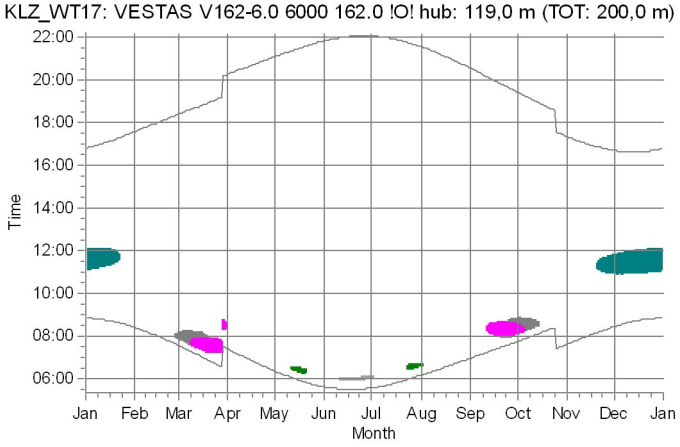
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)



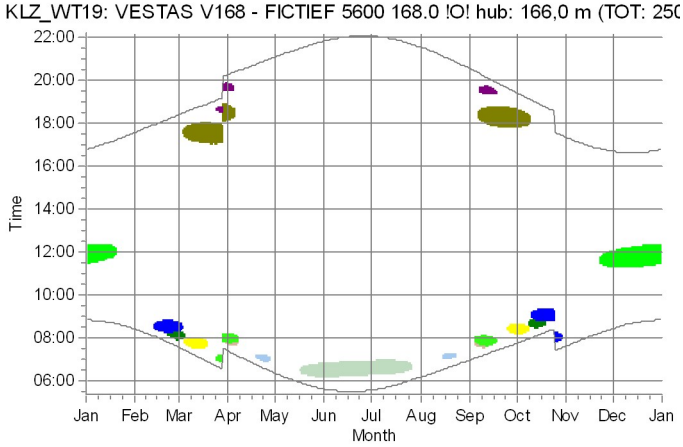
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m)



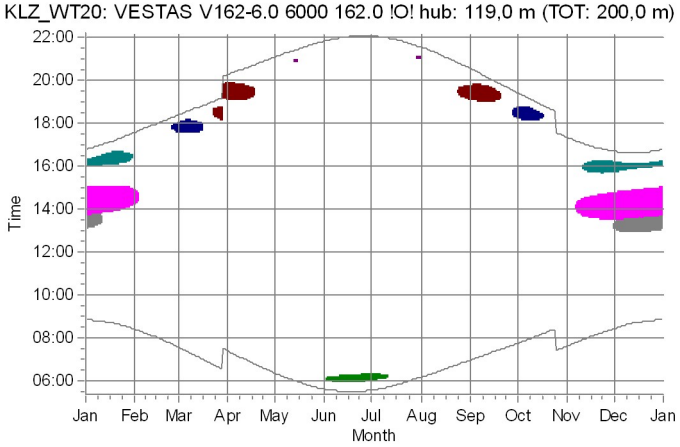
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)



KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250



KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

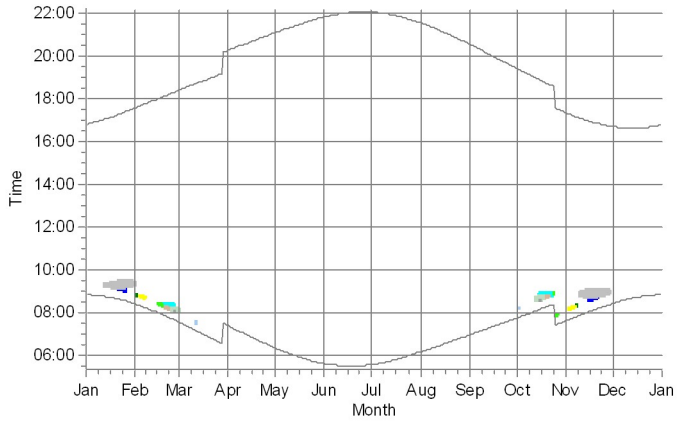
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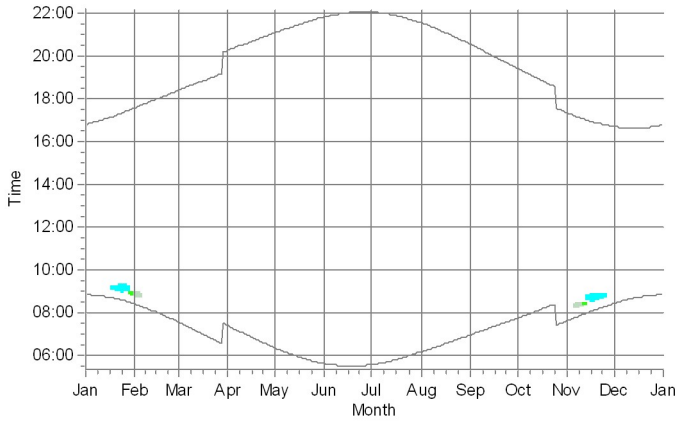
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

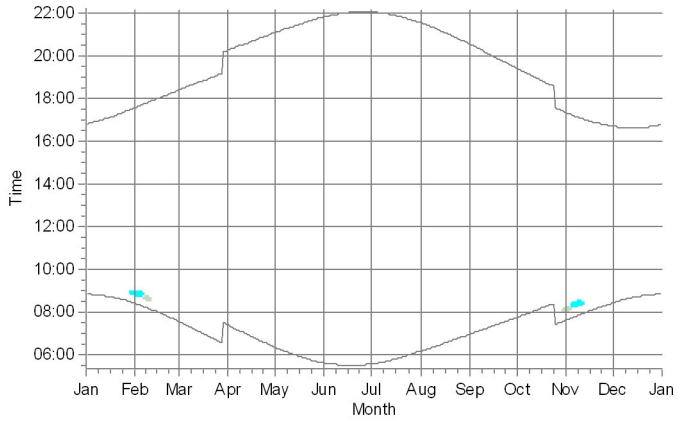
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,



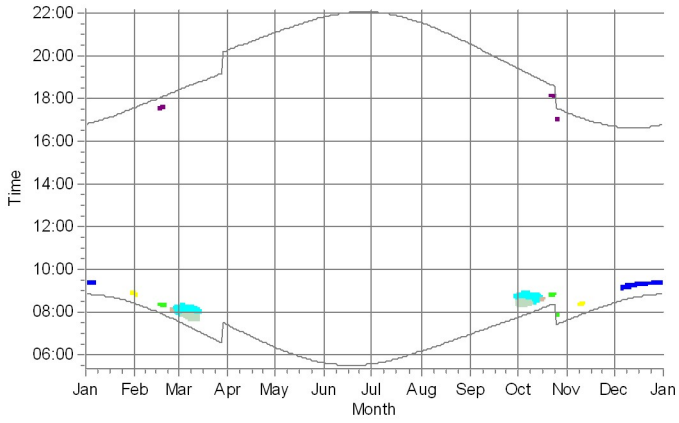
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40



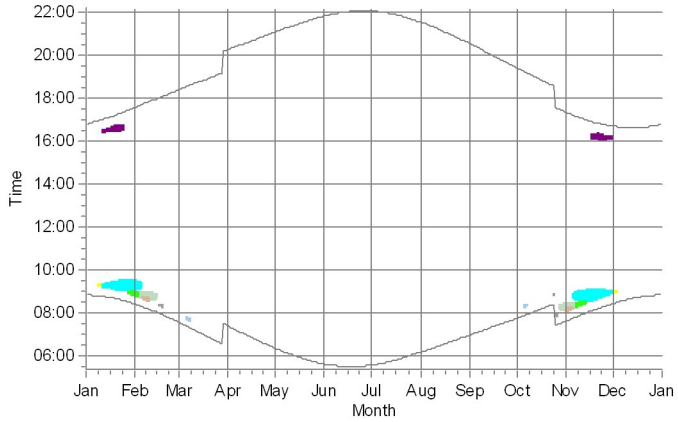
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,



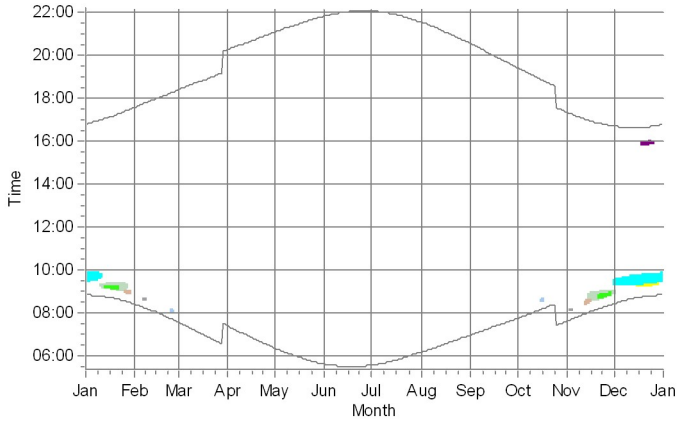
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)



RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5



RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

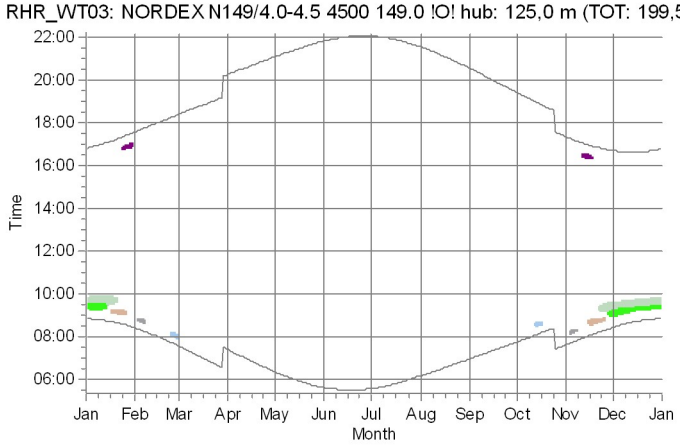
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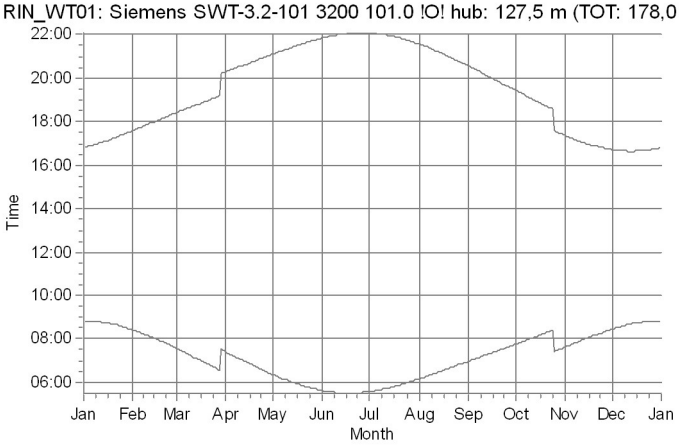
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

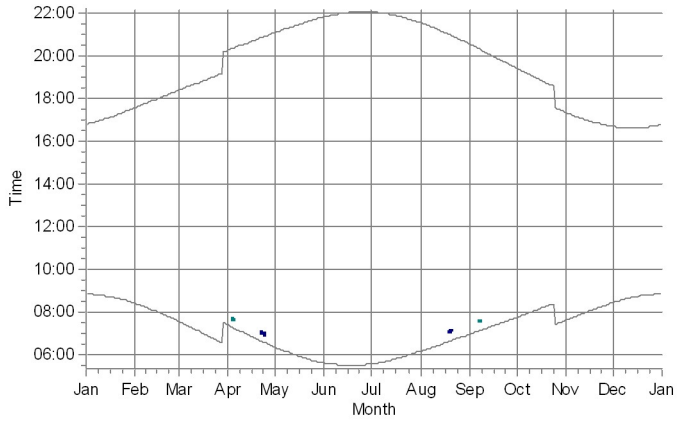
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5



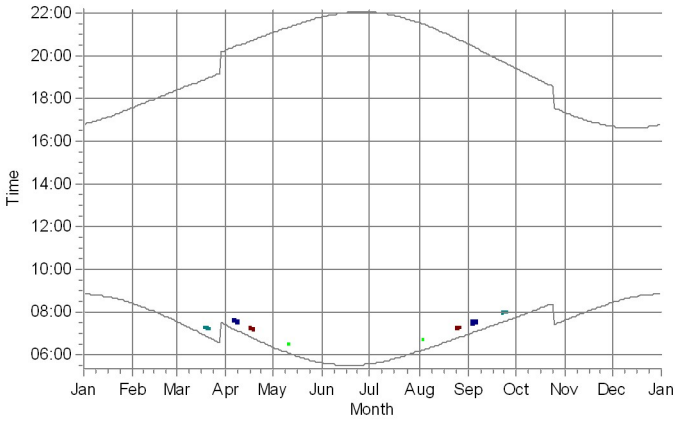
RIN_WT01: Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)



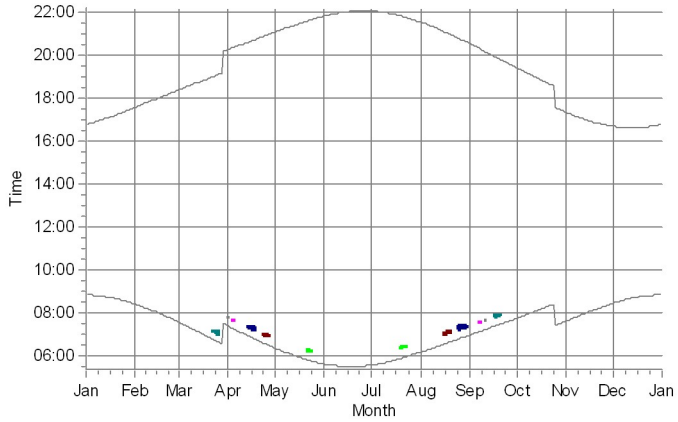
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



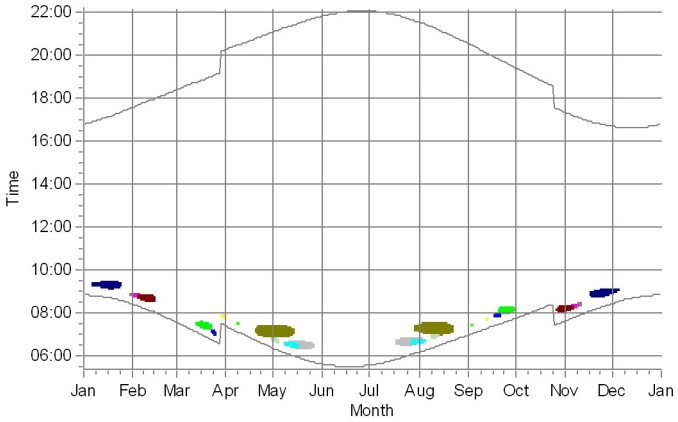
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)



SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)



Shadow receptors

- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

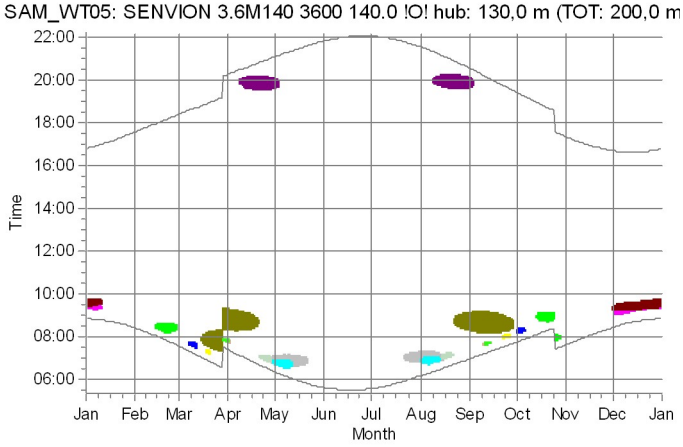
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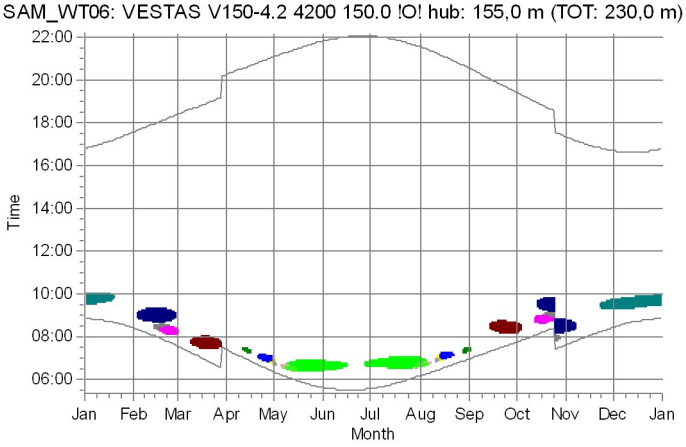
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

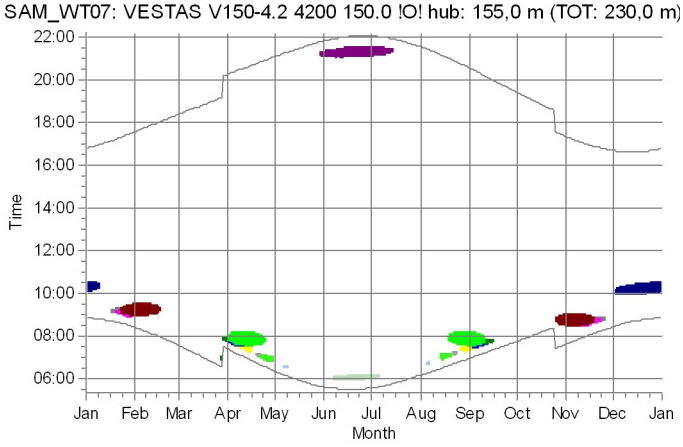
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



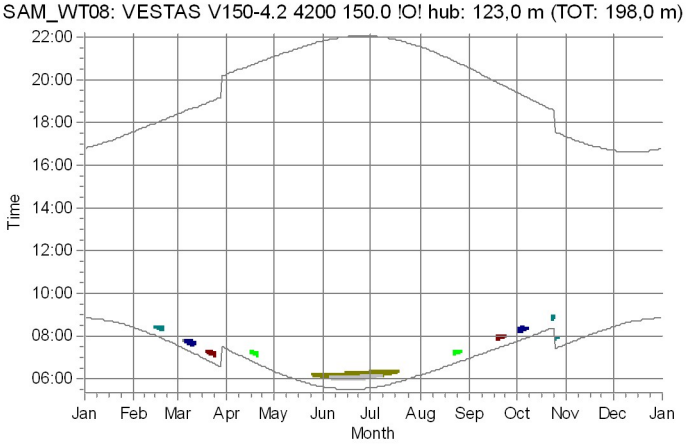
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)



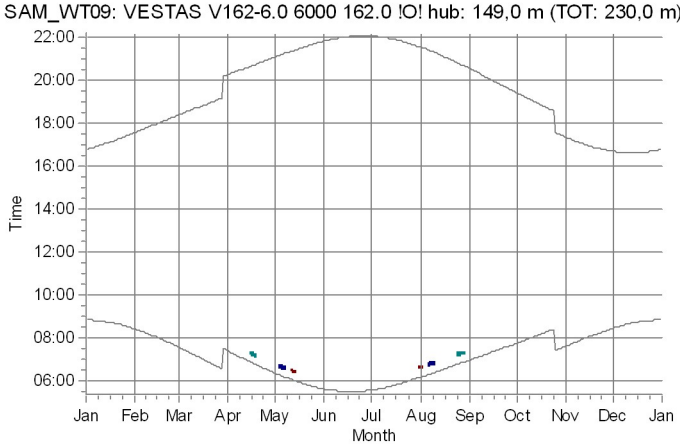
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m)



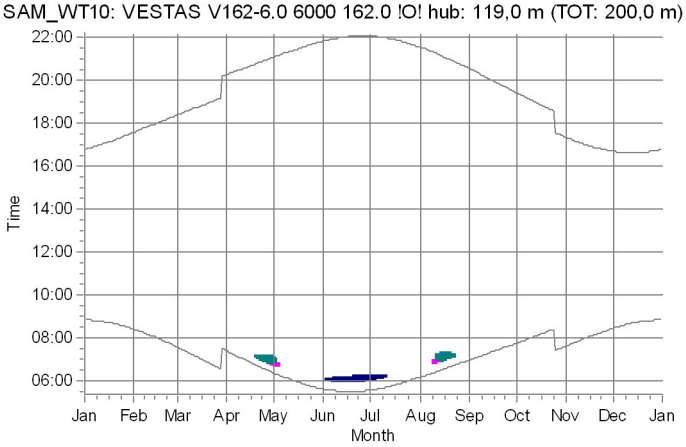
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)



SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m)



SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

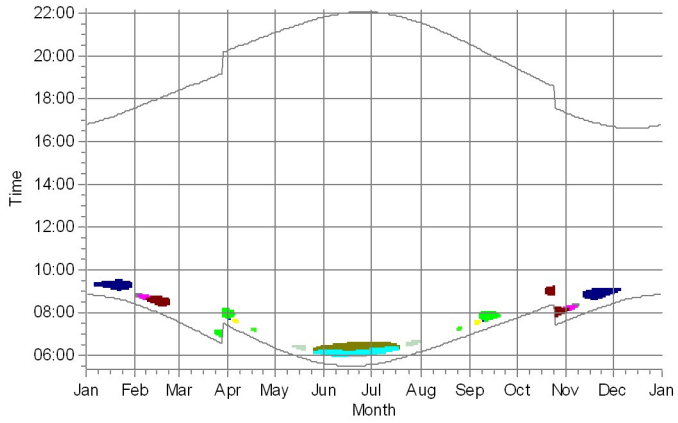
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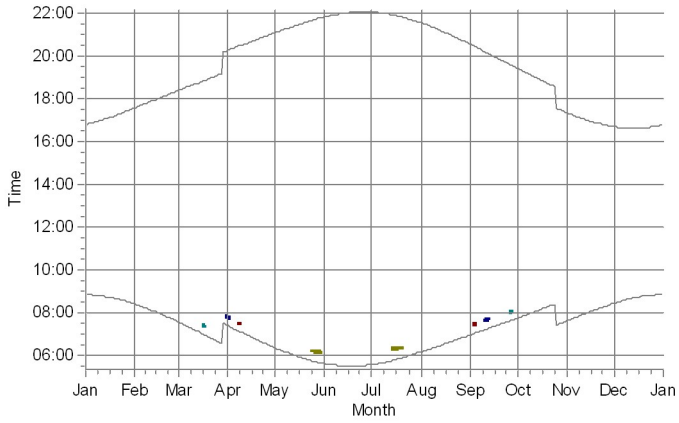
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A

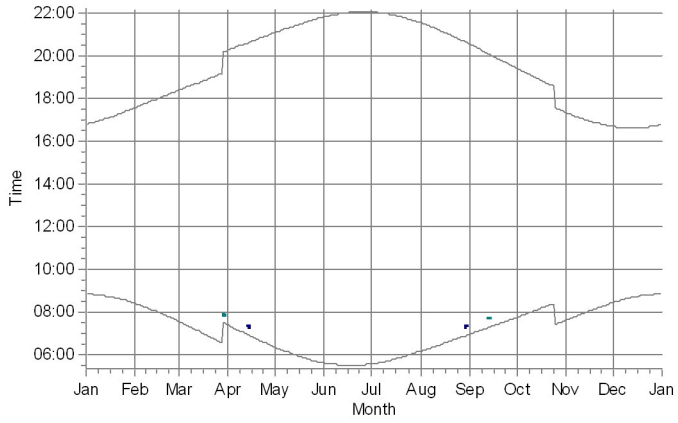
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m)



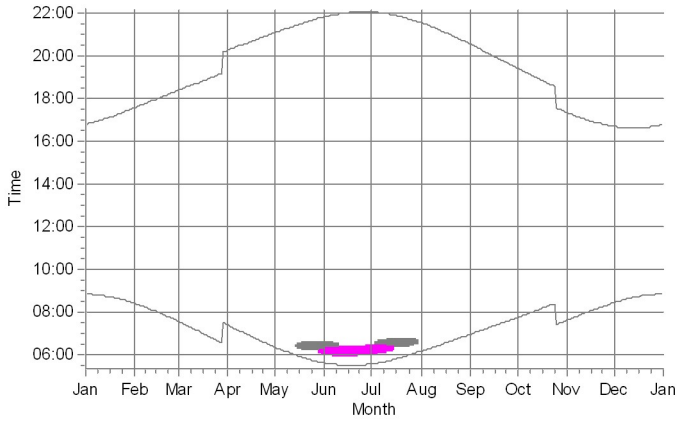
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)



Shadow receptors

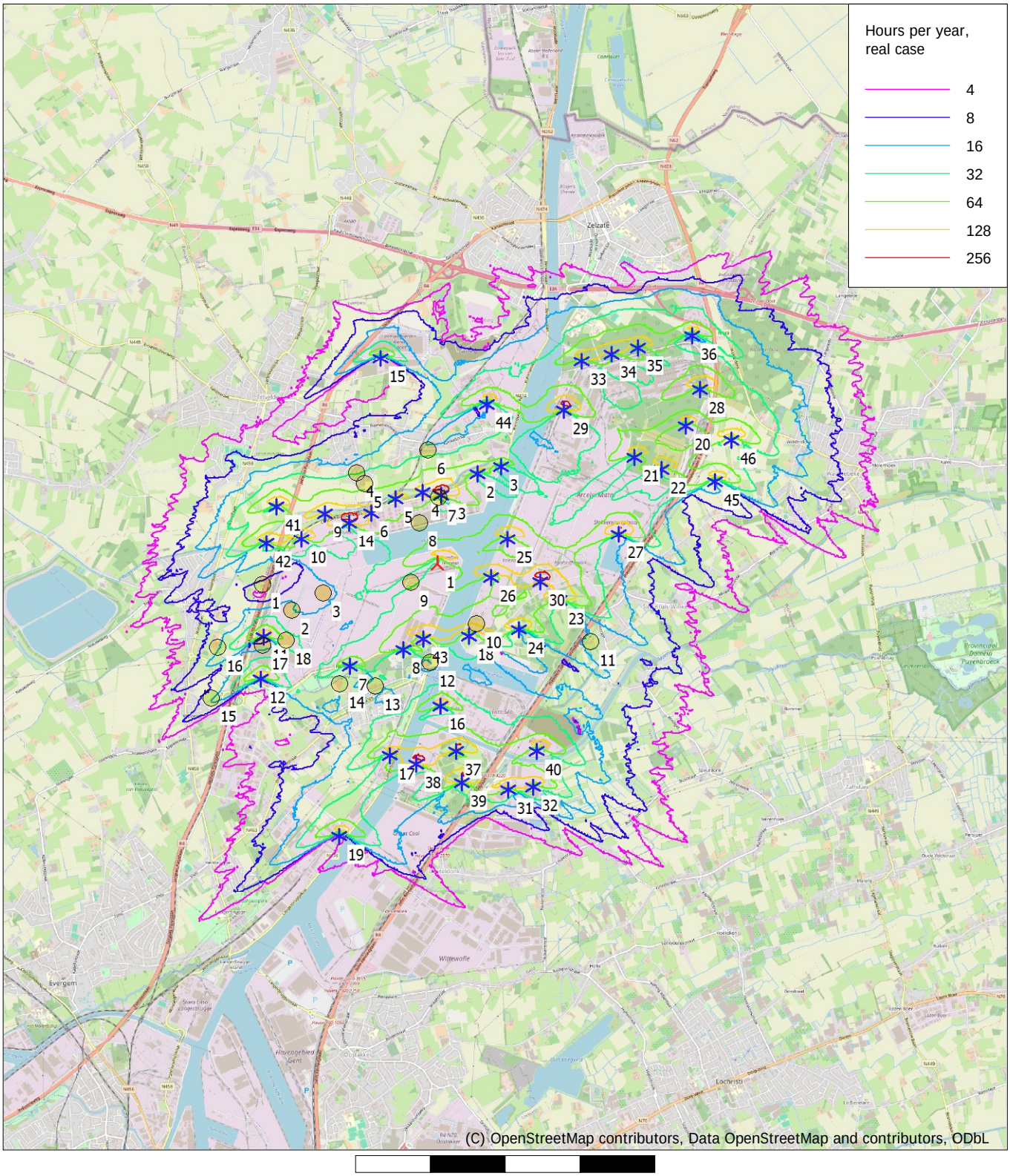
- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
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- 18: Pachtgoederen 1, 9940 Evergem

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SHADOW - Map

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.600 North: 205.380

New WTG Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

Project:
WP Kluizendok v1

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

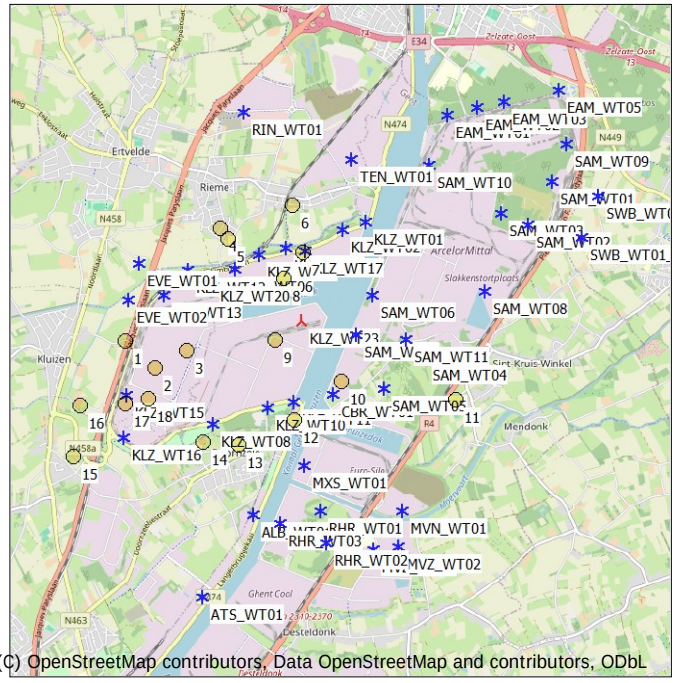
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



Scale 1:100.000

New WTG | Existing WTG | Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EAM_WT01	110.746	208.330	9,8	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT02	111.134	208.423	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT03	111.493	208.509	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT05	112.214	208.658	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT11	108.672	204.558	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT23	108.781	205.627	9,7	KLZ_WT23 Stukwerkers	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RIN_WT01	108.045	208.389	10,0	Siemens SWT-3.2-101 ...	Yes	Siemens	SWT-3.2-101-3.200	3.200	101,0	127,5	100.000	16,0
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2

To be continued on next page...

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	Ooievaarstraat 7, 9940 Evergem	107.712	206.856	6,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Speidamstraat 58, 9940 Evergem	107.822	206.713	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Rimewegel 46, 9940 Evergem	108.680	207.151	7,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Schuitstraat 1, 9042 Gent	110.830	204.575	6,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 41, 9940 Evergem	105.749	203.857	8,6	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	22:18	173	0:20	5:32
2	Pachtgoederen 2, 9940 Evergem	84:37	221	0:54	16:47
3	Pachtgoederen 2, 9940 Evergem	49:26	199	0:40	11:02
4	Ooievaarstraat 7, 9940 Evergem	178:33	265	2:02	31:52
5	Speidamstraat 58, 9940 Evergem	295:28	295	2:35	53:24
6	Rimewegel 46, 9940 Evergem	149:10	271	2:06	25:04
7	Christoffel Columbuslaan 23, 9042 Gent	211:04	319	1:37	46:20
8	Christoffel Columbuslaan 23, 9042 Gent	226:26	281	1:45	41:53
9	Willem van Rubroeckstraat 2, 9042 Gent	100:46	278	0:39	23:17
10	Arbedkaai 3, 9042 Gent	394:28	228	3:15	114:56
11	Schuitstraat 1, 9042 Gent	61:42	220	0:35	15:15
12	Terdonkkaai 8, 9042 Gent	67:31	187	0:43	16:58
13	Doornzele Dries 107, 9940 Evergem	93:17	270	0:38	21:08
14	Abdijdreef 2, 9940 Evergem	115:22	300	0:46	25:12
15	Hageland 41, 9940 Evergem	54:44	159	0:40	15:25
16	Molendreef 5, 9940 Evergem	66:48	165	0:52	15:45
17	Amerigo Vespuccistraat 2A, 9940 Evergem	57:14	194	0:50	10:22
18	Pachtgoederen 1, 9940 Evergem	244:54	298	1:39	58:25

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:40	2:20
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	4:26	0:31
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	370:29	105:47
EAM_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)	4:47	1:28
EAM_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)	1:38	0:30
EAM_WT03	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)	0:39	0:11
EAM_WT05	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)	0:00	0:00
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	29:05	6:50
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:11	4:09
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	23:51	6:46
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	19:04	4:28
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	86:42	20:31
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	61:36	12:32
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	77:09	14:14
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	29:37	5:09
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	55:26	13:58
KLZ_WT11	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)	18:06	4:27
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	84:42	16:16
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	36:24	6:48
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	287:31	71:10
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	161:20	33:12
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	86:39	15:15
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	183:05	35:20
KLZ_WT23	KLZ_WT23 Stukwerkers	243:26	44:59
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:27	2:37
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	20:22	3:50
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	26:36	3:59
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	20:10	2:32
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	30:17	3:50
RIN_WT01	Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)	0:00	0:00
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:19	0:05
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:12	0:19
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	3:00	0:50
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	40:04	10:12
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	118:12	28:20
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	92:28	19:37
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	76:53	16:15
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	15:14	4:19
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:48	0:14
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	11:01	3:19
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	48:19	11:38
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:09	0:20
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:10	0:02
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	25:01	7:40

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

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SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24			07:32			07:23		07:48 (SAM_WT07)	06:20			05:36		06:04 (KLZ_WT05)
	16:48	5	09:25 (KLZ_WT08)	17:35			18:25			20:17	6	07:54 (SAM_WT07)	21:06			21:51	2	06:06 (KLZ_WT05)
2	08:50		09:20 (KLZ_WT08)	08:23		08:48 (MVN_WT01)	07:30		07:53 (CBR_WT01)	07:21			06:18			05:36		06:04 (KLZ_WT05)
	16:49	6	09:26 (KLZ_WT08)	17:37	1	08:49 (MVN_WT01)	18:27	1	07:54 (CBR_WT01)	20:19			21:08			21:52	3	06:07 (KLZ_WT05)
3	08:49		09:20 (KLZ_WT08)	08:21		08:46 (MVN_WT01)	07:28		07:51 (CBR_WT01)	07:19			06:17			05:35		06:03 (KLZ_WT05)
	16:50	7	09:27 (KLZ_WT08)	17:38	2	08:48 (MVN_WT01)	18:28	4	07:55 (CBR_WT01)	20:20			21:10			21:53	3	06:06 (KLZ_WT05)
4	08:49		09:19 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (CBR_WT01)	07:17			06:15			05:34		06:02 (KLZ_WT05)
	16:51	7	09:26 (KLZ_WT08)	17:40	1	08:46 (MVN_WT01)	18:30	6	07:55 (CBR_WT01)	20:22			21:11			21:54	4	06:06 (KLZ_WT05)
5	08:49		09:19 (KLZ_WT08)	08:18			07:24		07:47 (CBR_WT01)	07:14		07:37 (KLZ_WT23)	06:13			05:34		06:02 (KLZ_WT05)
	16:53	8	09:27 (KLZ_WT08)	17:42			18:32	8	07:55 (CBR_WT01)	20:24	7	07:44 (KLZ_WT23)	21:13			21:55	5	06:07 (KLZ_WT20)
6	08:49		09:18 (KLZ_WT08)	08:16			07:22		07:44 (CBR_WT01)	07:12		07:34 (KLZ_WT23)	06:11			05:33		06:01 (KLZ_WT05)
	16:54	9	09:27 (KLZ_WT08)	17:44			18:33	10	07:54 (CBR_WT01)	20:25	11	07:45 (KLZ_WT23)	21:14			21:56	6	06:07 (KLZ_WT20)
7	08:48		09:18 (KLZ_WT08)	08:15			07:19		07:43 (CBR_WT01)	07:10		07:32 (KLZ_WT23)	06:09			05:32		06:01 (KLZ_WT05)
	16:55	10	09:28 (KLZ_WT08)	17:46			18:35	10	07:53 (CBR_WT01)	20:27	14	07:46 (KLZ_WT23)	21:16			21:57	7	06:08 (KLZ_WT20)
8	08:48		09:17 (KLZ_WT08)	08:13			07:17		07:45 (CBR_WT01)	07:08		07:30 (KLZ_WT23)	06:08			05:32		06:01 (KLZ_WT06)
	16:56	11	09:28 (KLZ_WT08)	17:47			18:37	6	07:51 (CBR_WT01)	20:29	16	07:46 (KLZ_WT23)	21:18			21:57	9	06:10 (KLZ_WT20)
9	08:48		09:18 (KLZ_WT08)	08:11			07:15			07:06		07:29 (KLZ_WT23)	06:06			05:31		06:00 (KLZ_WT06)
	16:58	11	09:29 (KLZ_WT08)	17:49			18:39			20:30	18	07:47 (KLZ_WT23)	21:19			21:58	9	06:09 (KLZ_WT20)
10	08:47		09:18 (KLZ_WT08)	08:09			07:13		07:35 (SAM_WT05)	07:03		07:29 (KLZ_WT23)	06:04			05:31		06:00 (KLZ_WT06)
	16:59	11	09:29 (KLZ_WT08)	17:51			18:40	1	07:36 (SAM_WT05)	20:32	18	07:47 (KLZ_WT23)	21:21			21:59	10	06:10 (KLZ_WT20)
11	08:47		09:15 (RHR_WT01)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:24 (SAM_WT06)	06:03		06:28 (KLZ_WT17)	05:31		06:00 (KLZ_WT06)
	17:00	12	09:29 (KLZ_WT08)	17:53			18:42	2	07:35 (SAM_WT05)	20:34	18	07:46 (KLZ_WT23)	21:22	1	06:29 (KLZ_WT17)	22:00	11	06:11 (KLZ_WT20)
12	08:46		09:15 (RHR_WT01)	08:06			07:08			06:59		07:21 (SAM_WT06)	06:01		06:26 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:02	11	09:29 (KLZ_WT08)	17:55			18:44			20:35	20	07:45 (KLZ_WT23)	21:24	3	06:29 (KLZ_WT17)	22:00	12	06:11 (KLZ_WT20)
13	08:45		09:14 (RHR_WT01)	08:04			07:06			06:57		07:19 (SAM_WT06)	06:00		06:25 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:03	10	09:29 (KLZ_WT08)	17:56			18:45			20:37	20	07:44 (KLZ_WT23)	21:25	4	06:29 (KLZ_WT17)	22:01	12	06:11 (KLZ_WT20)
14	08:45		09:13 (RHR_WT01)	08:02		08:26 (KLZ_WT10)	07:04			06:55		07:17 (SAM_WT06)	05:58		06:23 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:05	8	09:28 (KLZ_WT08)	17:58	2	08:28 (KLZ_WT10)	18:47			20:39	18	07:42 (KLZ_WT23)	21:27	5	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
15	08:44			08:00		08:24 (KLZ_WT10)	07:02			06:53		07:15 (SAM_WT06)	05:56		06:22 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:06			18:00	3	08:27 (KLZ_WT10)	18:49			20:40	15	07:40 (KLZ_WT23)	21:28	6	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
16	08:43			07:58		08:22 (KLZ_WT10)	06:59			06:50			05:55		06:21 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:08			18:02	4	08:26 (KLZ_WT10)	18:51			20:42			21:30	7	06:28 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
17	08:42			07:57			06:57			06:48			05:54		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:09			18:04			18:52			20:43			21:31	8	06:27 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
18	08:41			07:55			06:55			06:46			05:52		06:18 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:11			18:05			18:54			20:45			21:33	8	06:26 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
19	08:40			07:53			06:53			06:44			05:51		06:17 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:12			18:07			18:56			20:47			21:34	8	06:25 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
20	08:39			07:51			06:50			06:42			05:49		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:14			18:09			18:57			20:48			21:35	5	06:24 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
21	08:38			07:49			06:48			06:40			05:48			05:30		05:59 (KLZ_WT06)
	17:16			18:11			18:59			20:50			21:37			22:04	15	06:14 (KLZ_WT20)
22	08:37			07:47			06:46			06:38			05:47			05:30		06:00 (KLZ_WT06)
	17:17			18:12			19:01			20:52			21:38			22:05	14	06:14 (KLZ_WT20)
23	08:36			07:45		08:08 (KLZ_WT11)	06:44			06:36			05:46			05:30		06:00 (KLZ_WT06)
	17:19			18:14	1	08:09 (KLZ_WT11)	19:02			20:53			21:40			22:05	14	06:14 (KLZ_WT20)
24	08:35			07:43			06:41			06:34			05:44			05:31		06:00 (KLZ_WT06)
	17:21			18:16			19:04			20:55			21:41			22:05	14	06:14 (KLZ_WT20)
25	08:34			07:41			06:39			06:32			05:43			05:31		06:01 (KLZ_WT06)
	17:22			18:18			19:06			20:57			21:42			22:05	14	06:15 (KLZ_WT20)
26	08:32			07:39			06:37			06:30			05:42			05:31		06:01 (KLZ_WT06)
	17:24			18:20			19:07			20:58			21:43			22:05	14	06:15 (KLZ_WT20)
27	08:31			07:36			06:35		06:57 (SAM_WT11)	06:28			05:41			05:32		06:02 (KLZ_WT06)
	17:26			18:21			19:09	1	06:58 (SAM_WT11)	21:00			21:45			22:05	13	06:15 (KLZ_WT20)
28	08:30			07:34			06:32		06:55 (SAM_WT07)	06:26			05:40			05:32		06:02 (KLZ_WT06)
	17:28			18:23			19:10	3	06:58 (SAM_WT07)	21:01			21:46			22:05	13	06:15 (KLZ_WT20)
29	08:28						07:30		07:52 (SAM_WT07)	06:24			05:39			05:33		06:03 (KLZ_WT06)
	17:29						20:12	5	07:57 (SAM_WT07)	21:03			21:47			22:05	13	06:16 (KLZ_WT20)
30	08:27						07:28		07:50 (SAM_WT07)	06:22			05:38			05:33		06:03 (KLZ_WT06)
	17:31						20:14	6	07:56 (SAM_WT07)	21:05			21:48			22:05	12	06:15 (KLZ_WT20)
31	08:26						07:26		07:48 (SAM_WT07)				05:37		06:05 (KLZ_WT05)			
	17:33						20:15	8	07:56 (SAM_WT07)				21:49	1	06:06 (KLZ_WT05)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		126			14			71			181			56			325	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,56			0,58			0,64			0,70			0,71	
Total reduction		0,13			0,16			0,21			0,29			0,31			0,31	
Total, real		16			2			15			52			17			100	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	18	07:45 (KLZ_WT23)	19:25			17:21			16:42	12	09:11 (KLZ_WT08)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59		07:27 (KLZ_WT23)	07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31	18	07:45 (KLZ_WT23)	19:23	2	08:13 (SAM_WT05)	17:19			16:42	11	09:12 (KLZ_WT08)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00		07:27 (KLZ_WT23)	07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29	18	07:45 (KLZ_WT23)	19:21	2	08:14 (SAM_WT05)	17:17			16:41	11	09:12 (KLZ_WT08)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02		07:27 (KLZ_WT23)	07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27	16	07:43 (KLZ_WT23)	19:19			17:16			16:40	11	09:13 (KLZ_WT08)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03		07:29 (KLZ_WT23)	07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24	14	07:43 (KLZ_WT23)	19:17	4	08:27 (CBR_WT01)	17:14			16:40	10	09:13 (KLZ_WT08)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05		07:30 (KLZ_WT23)	07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22	11	07:41 (KLZ_WT23)	19:14	8	08:28 (CBR_WT01)	17:12			16:40	9	09:13 (KLZ_WT08)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07		07:32 (KLZ_WT23)	07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20	8	07:40 (KLZ_WT23)	19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	8	09:14 (KLZ_WT08)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08		07:33 (KLZ_WT23)	07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18	2	07:35 (KLZ_WT23)	19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	8	09:15 (KLZ_WT08)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10			07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16			19:08	7	08:29 (CBR_WT01)	17:07			16:39	7	09:15 (KLZ_WT08)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11			07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13			19:05	5	08:29 (CBR_WT01)	17:06			16:38	6	09:15 (KLZ_WT08)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	6	07:46 (SAM_WT07)	19:03	3	08:29 (CBR_WT01)	17:04			16:38	5	09:15 (KLZ_WT08)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02			07:56			08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	8	07:47 (SAM_WT07)	19:01			17:03			16:38	4	09:15 (KLZ_WT08)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04			07:57			08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	7	07:48 (SAM_WT07)	18:59			17:01			16:38	4	09:16 (KLZ_WT08)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06			07:59			08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	5	07:47 (SAM_WT07)	18:57			17:00			16:38	3	09:16 (KLZ_WT08)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07			08:01			08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	3	07:47 (SAM_WT07)	18:55			16:59			16:38	2	09:16 (KLZ_WT08)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09			08:03			08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	1	07:46 (SAM_WT07)	18:53			16:57			16:38	2	09:17 (KLZ_WT08)
17	05:49			06:34			07:22			08:11			08:04			08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57			18:50			16:56			16:39	1	09:17 (KLZ_WT08)
18	05:50			06:35			07:24			08:13		08:38 (KLZ_WT11)	08:06			08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55			18:48	1	08:39 (KLZ_WT11)	16:55			16:39	1	09:17 (KLZ_WT08)
19	05:51			06:37			07:25			08:14			08:08			08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53			18:46			16:53			16:39	1	09:18 (KLZ_WT08)
20	05:53			06:38			07:27			08:16			08:09			08:46		
	21:50			20:59			19:50			18:44			16:52			16:39		
21	05:54			06:40			07:29			08:18			08:11			08:47		
	21:49			20:57			19:48			18:42			16:51			16:40		
22	05:55			06:41			07:30			08:19			08:12			08:47		
	21:48			20:55			19:46			18:40			16:50			16:40		
23	05:56			06:43			07:32			08:21			08:14			08:48		
	21:47			20:53			19:44			18:38			16:49			16:41		
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16			08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48			16:41	1	09:20 (KLZ_WT08)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17			08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47			16:42	1	09:21 (KLZ_WT08)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19			08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46			16:43	1	09:21 (KLZ_WT08)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20			08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45			16:43	2	09:22 (KLZ_WT08)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	15	07:42 (KLZ_WT23)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	8	09:08 (KLZ_WT08)	16:44	2	09:22 (KLZ_WT08)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	18	07:43 (KLZ_WT23)	19:30			17:27			16:44	10	09:09 (KLZ_WT08)	16:45	3	09:23 (KLZ_WT08)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	20	07:45 (KLZ_WT23)	19:28			17:25			16:43	11	09:10 (KLZ_WT08)	16:46	3	09:23 (KLZ_WT08)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	20	07:45 (KLZ_WT23)				17:23						16:47	4	09:24 (KLZ_WT08)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		128			75			135			61			33			133	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,64			0,63			0,56			0,53			0,53	
Total reduction		0,31			0,29			0,27			0,20			0,14			0,12	
Total, real		39			22			36			12			5			15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (KLZ_WT08)	08:24		08:50 (MXS_WT01)	07:32			07:23			06:20		06:47 (SAM_WT06)	05:36
	16:48	11	09:31 (KLZ_WT08)	17:35	53	16:35 (KLZ_WT15)	18:25			20:17			21:06	22	07:09 (KLZ_WT23)	21:51
2	08:50		09:21 (KLZ_WT08)	08:23		08:48 (MXS_WT01)	07:30			07:21			06:18		06:48 (KLZ_WT23)	05:36
	16:49	11	09:32 (KLZ_WT08)	17:36	53	16:35 (KLZ_WT15)	18:27			20:19			21:08	21	07:09 (KLZ_WT23)	21:52
3	08:49		09:21 (KLZ_WT08)	08:21		15:46 (KLZ_WT15)	07:28			07:19			06:17		06:49 (KLZ_WT23)	05:35
	16:50	12	09:33 (KLZ_WT08)	17:38	49	16:35 (KLZ_WT15)	18:28			20:20			21:10	20	07:09 (KLZ_WT23)	21:53
4	08:49		09:20 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (KLZ_WT11)	07:17			06:15		06:48 (KLZ_WT23)	05:34
	16:51	13	09:33 (KLZ_WT08)	17:40	50	16:36 (KLZ_WT15)	18:30	2	07:51 (KLZ_WT11)	20:22			21:11	21	07:09 (KLZ_WT23)	21:54
5	08:49		09:20 (KLZ_WT08)	08:18		08:43 (MVN_WT01)	07:24		07:46 (KLZ_WT11)	07:14		07:37 (SAM_WT11)	06:13		06:48 (KLZ_WT23)	05:34
	16:53	14	09:34 (KLZ_WT08)	17:42	51	16:35 (KLZ_WT15)	18:32	4	07:50 (KLZ_WT11)	20:24	1	07:38 (SAM_WT11)	21:13	20	07:08 (KLZ_WT23)	21:55
6	08:49		09:20 (KLZ_WT08)	08:16		08:41 (MVN_WT01)	07:21		07:44 (KLZ_WT11)	07:12		07:34 (SAM_WT11)	06:11		06:49 (KLZ_WT23)	05:33
	16:54	15	09:35 (KLZ_WT08)	17:44	52	16:35 (KLZ_WT15)	18:33	5	07:49 (KLZ_WT11)	20:25	2	07:36 (SAM_WT11)	21:14	19	07:08 (KLZ_WT23)	21:56
7	08:48		09:20 (KLZ_WT08)	08:15		08:39 (MVN_WT01)	07:19		07:43 (KLZ_WT11)	07:10		07:32 (SAM_WT11)	06:09		06:50 (KLZ_WT23)	05:32
	16:55	16	09:36 (KLZ_WT08)	17:45	53	16:35 (KLZ_WT15)	18:35	5	07:48 (KLZ_WT11)	20:27	3	07:35 (SAM_WT11)	21:16	17	07:07 (KLZ_WT23)	21:56
8	08:48		09:20 (KLZ_WT08)	08:13		08:41 (MVN_WT01)	07:17			07:08			06:08		06:50 (KLZ_WT23)	05:32
	16:56	16	09:36 (KLZ_WT08)	17:47	48	16:35 (KLZ_WT15)	18:37			20:29			21:17	15	07:05 (KLZ_WT23)	21:57
9	08:48		09:17 (RHR_WT01)	08:11		15:49 (KLZ_WT15)	07:15			07:06		07:28 (SAM_WT07)	06:06		06:52 (KLZ_WT23)	05:31
	16:58	17	09:37 (KLZ_WT08)	17:49	46	16:35 (KLZ_WT15)	18:39			20:30	2	07:30 (SAM_WT07)	21:19	13	07:05 (KLZ_WT23)	21:58
10	08:47		09:16 (RHR_WT01)	08:09		15:49 (KLZ_WT15)	07:13			07:03		07:26 (SAM_WT07)	06:04		06:53 (KLZ_WT23)	05:31
	16:59	29	16:08 (KLZ_WT15)	17:51	45	16:34 (KLZ_WT15)	18:40			20:32	5	07:31 (SAM_WT07)	21:21	9	07:02 (KLZ_WT23)	21:59
11	08:46		09:15 (RHR_WT01)	08:08		15:50 (KLZ_WT15)	07:11			07:01		07:24 (SAM_WT07)	06:03		06:56 (KLZ_WT23)	05:31
	17:00	35	16:11 (KLZ_WT15)	17:53	44	16:34 (KLZ_WT15)	18:42			20:34	7	07:31 (SAM_WT07)	21:22	4	07:00 (KLZ_WT23)	22:00
12	08:46		09:15 (RHR_WT01)	08:06		15:50 (KLZ_WT15)	07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01			05:30
	17:02	40	16:14 (KLZ_WT15)	17:55	43	16:33 (KLZ_WT15)	18:44	4	07:35 (CBR_WT01)	20:35	9	07:30 (SAM_WT07)	21:24			22:00
13	08:45		09:14 (RHR_WT01)	08:04		15:51 (KLZ_WT15)	07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00			05:30
	17:03	43	16:15 (KLZ_WT15)	17:56	41	16:32 (KLZ_WT15)	18:45	7	07:36 (CBR_WT01)	20:37	10	07:29 (SAM_WT07)	21:25			22:01
14	08:45		09:13 (RHR_WT01)	08:02		15:52 (KLZ_WT15)	07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58			05:30
	17:05	48	16:17 (KLZ_WT15)	17:58	39	16:31 (KLZ_WT15)	18:47	10	07:36 (CBR_WT01)	20:38	11	07:28 (SAM_WT07)	21:27			22:02
15	08:44		09:12 (RHR_WT01)	08:00		15:53 (KLZ_WT15)	07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30
	17:06	51	16:19 (KLZ_WT15)	18:00	37	16:30 (KLZ_WT15)	18:49	12	07:36 (CBR_WT01)	20:40	8	07:26 (SAM_WT07)	21:28			22:02
16	08:43		09:11 (RHR_WT01)	07:58		15:55 (KLZ_WT15)	06:59		07:22 (CBR_WT01)	06:50			05:55			05:30
	17:08	53	16:20 (KLZ_WT15)	18:02	34	16:29 (KLZ_WT15)	18:50	14	07:36 (CBR_WT01)	20:42			21:30			22:03
17	08:42		09:11 (RHR_WT01)	07:57		15:57 (KLZ_WT15)	06:57		07:22 (CBR_WT01)	06:48			05:54			05:30
	17:09	54	16:22 (KLZ_WT15)	18:04	30	16:27 (KLZ_WT15)	18:52	13	07:35 (CBR_WT01)	20:43			21:31			22:03
18	08:41		09:13 (RHR_WT01)	07:55		15:59 (KLZ_WT15)	06:55		07:17 (SAM_WT05)	06:46			05:52			05:30
	17:11	51	16:23 (KLZ_WT15)	18:05	27	16:26 (KLZ_WT15)	18:54	13	07:33 (CBR_WT01)	20:45			21:33			22:03
19	08:40		09:25 (KLZ_WT08)	07:53		16:02 (KLZ_WT15)	06:53		07:15 (SAM_WT05)	06:44			05:51			05:30
	17:12	51	16:25 (KLZ_WT15)	18:07	21	16:23 (KLZ_WT15)	18:56	13	07:32 (CBR_WT01)	20:47			21:34			22:04
20	08:39		09:26 (KLZ_WT08)	07:51		16:05 (KLZ_WT15)	06:50		07:13 (SAM_WT05)	06:42			05:49			05:30
	17:14	51	16:26 (KLZ_WT15)	18:09	15	16:20 (KLZ_WT15)	18:57	5	07:18 (SAM_WT05)	20:48			21:35			22:04
21	08:38		09:27 (KLZ_WT08)	07:49			06:48			06:40			05:48			05:30
	17:16	49	16:26 (KLZ_WT15)	18:11			18:59			20:50			21:37			22:04
22	08:37		09:29 (KLZ_WT08)	07:47		08:10 (KLZ_WT10)	06:46			06:38			05:47			05:30
	17:17	48	16:28 (KLZ_WT15)	18:12	1	08:11 (KLZ_WT10)	19:01			20:52			21:38			22:05
23	08:36		09:32 (KLZ_WT08)	07:45		08:08 (KLZ_WT10)	06:44			06:36			05:46			05:30
	17:19	44	16:29 (KLZ_WT15)	18:14	4	08:12 (KLZ_WT10)	19:02			20:53			21:40			22:05
24	08:35		15:48 (KLZ_WT15)	07:43		08:06 (KLZ_WT10)	06:41			06:34			05:44			05:31
	17:21	42	16:30 (KLZ_WT15)	18:16	6	08:12 (KLZ_WT10)	19:04			20:55			21:41			22:05
25	08:34		15:47 (KLZ_WT15)	07:41		08:04 (KLZ_WT10)	06:39			06:32		06:55 (KLZ_WT23)	05:43			05:31
	17:22	43	16:30 (KLZ_WT15)	18:18	8	08:12 (KLZ_WT10)	19:05			20:57	9	07:04 (KLZ_WT23)	21:42			22:05
26	08:32		15:47 (KLZ_WT15)	07:39		08:02 (KLZ_WT10)	06:37			06:30		06:53 (KLZ_WT23)	05:42			05:31
	17:24	45	16:32 (KLZ_WT15)	18:20	10	08:12 (KLZ_WT10)	19:07			20:58	13	07:06 (KLZ_WT23)	21:43			22:05
27	08:31		15:46 (KLZ_WT15)	07:36		08:03 (KLZ_WT10)	06:35			06:28		06:51 (KLZ_WT23)	05:41			05:32
	17:26	46	16:32 (KLZ_WT15)	18:21	8	08:11 (KLZ_WT10)	19:09			21:00	16	07:07 (KLZ_WT23)	21:45			22:05
28	08:30		15:46 (KLZ_WT15)	07:34		08:04 (KLZ_WT10)	06:32			06:26		06:50 (SAM_WT06)	05:40			05:32
	17:28	47	16:33 (KLZ_WT15)	18:23	4	08:08 (KLZ_WT10)	19:10			21:01	19	07:09 (KLZ_WT23)	21:46			22:05
29	08:28		15:46 (KLZ_WT15)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33
	17:29	47	16:33 (KLZ_WT15)				20:12			21:03	21	07:09 (KLZ_WT23)	21:47			22:05
30	08:27		08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33
	17:31	50	16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	23	07:09 (KLZ_WT23)	21:48			22:04
31	08:26		08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37			
	17:33	51	16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		1143			872			109			159			181		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,65			0,70			0,59			0,65			0,66		
Total reduction		0,16			0,21			0,22			0,30			0,29		
Total, real		180			179			24			47			53		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July		August			September			October			November			December		
1	05:34		06:09			06:57		07:23 (SAM_WT07)	07:44		08:09 (CBR_WT01)	07:37		15:19 (KLZ_WT15)	08:26		08:57 (RHR_WT01)
	22:04		21:34			20:33	7	07:30 (SAM_WT07)	19:25	6	08:15 (CBR_WT01)	17:21	45	16:04 (KLZ_WT15)	16:42	35	15:53 (KLZ_WT15)
2	05:35		06:11		07:05 (KLZ_WT23)	06:59		07:24 (SAM_WT07)	07:46		08:11 (CBR_WT01)	07:38		15:18 (KLZ_WT15)	08:27		08:59 (RHR_WT01)
	22:04		21:32	7	07:12 (KLZ_WT23)	20:31	5	07:29 (SAM_WT07)	19:23	2	08:13 (CBR_WT01)	17:19	47	16:05 (KLZ_WT15)	16:42	30	15:52 (KLZ_WT15)
3	05:35		06:12		07:02 (KLZ_WT23)	07:00		07:26 (SAM_WT07)	07:48			07:40		08:10 (MVN_WT01)	08:29		09:00 (RHR_WT01)
	22:04		21:30	12	07:14 (KLZ_WT23)	20:29	2	07:28 (SAM_WT07)	19:21			17:17	49	16:05 (KLZ_WT15)	16:41	17	09:20 (KLZ_WT08)
4	05:36		06:14		07:01 (KLZ_WT23)	07:02			07:49			07:42		08:09 (MVN_WT01)	08:30		09:05 (KLZ_WT08)
	22:03		21:29	14	07:15 (KLZ_WT23)	20:27			19:19			17:16	53	16:05 (KLZ_WT15)	16:40	16	09:21 (KLZ_WT08)
5	05:37		06:15		07:00 (KLZ_WT23)	07:03		07:29 (SAM_WT11)	07:51			07:44		08:11 (MVN_WT01)	08:31		09:06 (KLZ_WT08)
	22:03		21:27	16	07:16 (KLZ_WT23)	20:24	3	07:32 (SAM_WT11)	19:16			17:14	52	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
6	05:38		06:17		06:59 (KLZ_WT23)	07:05		07:30 (SAM_WT11)	07:53			07:45		08:13 (MVN_WT01)	08:33		09:06 (KLZ_WT08)
	22:02		21:25	18	07:17 (KLZ_WT23)	20:22	2	07:32 (SAM_WT11)	19:14			17:12	50	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
7	05:38		06:18		06:59 (KLZ_WT23)	07:07		07:32 (SAM_WT11)	07:54		08:19 (KLZ_WT11)	07:47		08:15 (MVN_WT01)	08:34		09:07 (KLZ_WT08)
	22:02		21:24	19	07:18 (KLZ_WT23)	20:20	1	07:33 (SAM_WT11)	19:12	6	08:25 (KLZ_WT11)	17:11	49	16:05 (KLZ_WT15)	16:39	14	09:21 (KLZ_WT08)
8	05:39		06:20		06:58 (KLZ_WT23)	07:08			07:56		08:21 (KLZ_WT11)	07:49		15:17 (KLZ_WT15)	08:35		09:08 (KLZ_WT08)
	22:01		21:22	20	07:18 (KLZ_WT23)	20:18			19:10	5	08:26 (KLZ_WT11)	17:09	49	16:06 (KLZ_WT15)	16:39	13	09:21 (KLZ_WT08)
9	05:40		06:21		06:58 (KLZ_WT23)	07:10			07:58		08:22 (KLZ_WT11)	07:50		08:19 (MXS_WT01)	08:36		09:09 (KLZ_WT08)
	22:00		21:20	20	07:18 (KLZ_WT23)	20:15			19:08	3	08:25 (KLZ_WT11)	17:07	53	16:06 (KLZ_WT15)	16:39	12	09:21 (KLZ_WT08)
10	05:41		06:23		06:57 (KLZ_WT23)	07:11			07:59		08:24 (KLZ_WT11)	07:52		08:21 (MXS_WT01)	08:37		09:10 (KLZ_WT08)
	22:00		21:18	21	07:18 (KLZ_WT23)	20:13			19:05	1	08:25 (KLZ_WT11)	17:06	53	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
11	05:42		06:24		06:57 (KLZ_WT23)	07:13			08:01			07:54		08:23 (MXS_WT01)	08:38		09:10 (KLZ_WT08)
	21:59		21:16	21	07:18 (KLZ_WT23)	20:11			19:03			17:04	51	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
12	05:43		06:26		06:55 (SAM_WT06)	07:14			08:02			07:56		08:24 (MXS_WT01)	08:39		09:11 (KLZ_WT08)
	21:58		21:14	23	07:18 (KLZ_WT23)	20:09			19:01			17:03	50	16:05 (KLZ_WT15)	16:38	10	09:21 (KLZ_WT08)
13	05:44		06:27		06:54 (SAM_WT06)	07:16		07:41 (SAM_WT04)	08:04			07:57		15:18 (KLZ_WT15)	08:40		09:12 (KLZ_WT08)
	21:57		21:13	23	07:17 (KLZ_WT23)	20:06	1	07:42 (SAM_WT04)	18:59			17:01	47	16:05 (KLZ_WT15)	16:38	9	09:21 (KLZ_WT08)
14	05:45		06:29		06:56 (SAM_WT06)	07:18			08:06		08:36 (KLZ_WT10)	07:59		15:18 (KLZ_WT15)	08:41		09:13 (KLZ_WT08)
	21:56		21:11	21	07:17 (KLZ_WT23)	20:04			18:57	6	08:42 (KLZ_WT10)	17:00	47	16:05 (KLZ_WT15)	16:38	8	09:21 (KLZ_WT08)
15	05:47		06:30		06:57 (SAM_WT06)	07:19			08:07		08:34 (KLZ_WT10)	08:01		15:19 (KLZ_WT15)	08:42		09:15 (KLZ_WT08)
	21:56		21:09	18	07:15 (KLZ_WT23)	20:02			18:55	10	08:44 (KLZ_WT10)	16:59	46	16:05 (KLZ_WT15)	16:38	6	09:21 (KLZ_WT08)
16	05:48		06:32		06:59 (KLZ_WT23)	07:21			08:09		08:35 (KLZ_WT10)	08:02		15:20 (KLZ_WT15)	08:43		09:16 (KLZ_WT08)
	21:55		21:07	16	07:15 (KLZ_WT23)	20:00			18:53	9	08:44 (KLZ_WT10)	16:57	45	16:05 (KLZ_WT15)	16:38	5	09:21 (KLZ_WT08)
17	05:49		06:34		07:00 (KLZ_WT23)	07:22			08:11		08:36 (KLZ_WT10)	08:04		15:21 (KLZ_WT15)	08:44		09:17 (RHR_WT02)
	21:54		21:05	12	07:12 (KLZ_WT23)	19:57			18:50	8	08:44 (KLZ_WT10)	16:56	43	16:04 (KLZ_WT15)	16:39	4	09:21 (KLZ_WT08)
18	05:50		06:35		07:02 (KLZ_WT23)	07:24			08:12		08:38 (KLZ_WT10)	08:06		15:22 (KLZ_WT15)	08:45		09:16 (RHR_WT02)
	21:52		21:03	9	07:11 (KLZ_WT23)	19:55			18:48	6	08:44 (KLZ_WT10)	16:55	42	16:04 (KLZ_WT15)	16:39	5	09:21 (RHR_WT02)
19	05:51		06:37			07:25			08:14		08:40 (KLZ_WT10)	08:08		09:05 (KLZ_WT08)	08:45		09:17 (RHR_WT02)
	21:51		21:01			19:53			18:46	3	08:43 (KLZ_WT10)	16:53	45	16:03 (KLZ_WT15)	16:39	5	09:22 (RHR_WT02)
20	05:53		06:38			07:27			08:16			08:09		09:04 (KLZ_WT08)	08:46		09:18 (RHR_WT02)
	21:50		20:59			19:50			18:44			16:52	48	16:03 (KLZ_WT15)	16:39	5	09:23 (RHR_WT02)
21	05:54		06:40			07:29			08:18		16:40 (KLZ_WT15)	08:11		09:03 (KLZ_WT08)	08:47		09:18 (RHR_WT02)
	21:49		20:57			19:48			18:42	6	16:46 (KLZ_WT15)	16:51	49	16:02 (KLZ_WT15)	16:40	5	09:23 (RHR_WT02)
22	05:55		06:41			07:30			08:19		16:34 (KLZ_WT15)	08:12		09:02 (KLZ_WT08)	08:47		09:19 (RHR_WT02)
	21:48		20:55			19:46			18:40	17	16:51 (KLZ_WT15)	16:50	51	16:02 (KLZ_WT15)	16:40	5	09:24 (RHR_WT02)
23	05:56		06:43			07:32		07:56 (SAM_WT05)	08:21		16:31 (KLZ_WT15)	08:14		09:01 (KLZ_WT08)	08:48		09:19 (RHR_WT02)
	21:47		20:53			19:44	5	08:01 (SAM_WT05)	18:38	23	16:54 (KLZ_WT15)	16:49	50	16:01 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
24	05:58		06:45			07:33		07:58 (SAM_WT05)	08:23		16:29 (KLZ_WT15)	08:16		08:51 (RHR_WT01)	08:48		09:19 (RHR_WT02)
	21:45		20:50			19:41	10	08:14 (CBR_WT01)	18:36	28	16:57 (KLZ_WT15)	16:48	50	16:00 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
25	05:59		06:46			07:35		07:59 (SAM_WT05)	07:24		15:27 (KLZ_WT15)	08:17		08:49 (RHR_WT01)	08:48		09:20 (RHR_WT02)
	21:44		20:48			19:39	14	08:16 (CBR_WT01)	17:34	31	15:58 (KLZ_WT15)	16:47	54	16:00 (KLZ_WT15)	16:42	5	09:25 (RHR_WT02)
26	06:01		06:48			07:36		08:01 (SAM_WT05)	07:26		15:25 (KLZ_WT15)	08:19		08:49 (RHR_WT01)	08:49		09:20 (RHR_WT02)
	21:43		20:46			19:37	14	08:17 (CBR_WT01)	17:32	35	16:00 (KLZ_WT15)	16:46	53	15:58 (KLZ_WT15)	16:43	5	09:25 (RHR_WT02)
27	06:02		06:49		07:23 (SAM_WT07)	07:38		08:03 (CBR_WT01)	07:28		15:23 (KLZ_WT15)	08:20		08:51 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:41		20:44	2	07:25 (SAM_WT07)	19:35	15	08:18 (CBR_WT01)	17:30	37	16:00 (KLZ_WT15)	16:45	50	15:58 (KLZ_WT15)	16:43	5	09:26 (KLZ_WT08)
28	06:03		06:51		07:20 (SAM_WT07)	07:40		08:04 (CBR_WT01)	07:30		15:22 (KLZ_WT15)	08:22		08:53 (RHR_WT01)	08:49		09:21 (KLZ_WT08)
	21:40		20:42	8	07:28 (SAM_WT07)	19:32	13	08:17 (CBR_WT01)	17:28	39	16:01 (KLZ_WT15)	16:44	48	15:57 (KLZ_WT15)	16:44	5	09:26 (KLZ_WT08)
29	06:05		06:52		07:18 (SAM_WT07)	07:41		08:06 (CBR_WT01)	07:31		15:21 (KLZ_WT15)	08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38		20:40	11	07:29 (SAM_WT07)	19:30	11	08:17 (CBR_WT01)	17:27	41	16:02 (KLZ_WT15)	16:44	44	15:56 (KLZ_WT15)	16:45	7	09:27 (KLZ_WT08)
30	06:06		06:54		07:20 (SAM_WT07)	07:43		08:08 (CBR_WT01)	07:33		15:20 (KLZ_WT15)	08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37		20:38	10	07:30 (SAM_WT07)	19:28	8	08:16 (CBR_WT01)	17:25	43	16:03 (KLZ_WT15)	16:43	40	15:55 (KLZ_WT15)	16:46	8	09:28 (KLZ_WT08)
31	06:08		06:56		07:21 (SAM_WT07)				07:35		15:19 (KLZ_WT15)				08:50		09:20 (KLZ_WT08)
	21:35		20:35	8	07:29 (SAM_WT07)				17:23	45	16:04 (KLZ_WT15)				16:47	9	09:29 (KLZ_WT08)
Potential sun hours	498		451			380			333			269			248		
Total, worst case				329			111			410			1453			310	
Sun reduction				0,47			0,43			0,36			0,27			0,23	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,66			0,60			0,69			0,68			0,54	
Total reduction				0,30			0,25			0,24			0,18			0,12	
Total, real				99			28			100			259			37	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20		07:01 (KLZ_WT23)	05:36		
	16:48	6	09:26 (MXS_WT01)	17:35	38	16:59 (KLZ_WT15)	18:25	13	08:08 (CBR_WT01)	20:17	5	07:51 (SAM_WT11)	21:06	26	07:27 (KLZ_WT23)	21:51		
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18		07:01 (KLZ_WT23)	05:36		
	16:49	7	09:27 (MXS_WT01)	17:36	35	16:58 (KLZ_WT15)	18:27	16	08:09 (CBR_WT01)	20:19	6	07:49 (SAM_WT11)	21:08	26	07:27 (KLZ_WT23)	21:52		
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16		07:02 (KLZ_WT23)	05:35		
	16:50	7	09:27 (MXS_WT01)	17:38	32	16:58 (KLZ_WT15)	18:28	18	08:09 (CBR_WT01)	20:20	6	07:47 (SAM_WT07)	21:10	25	07:27 (KLZ_WT23)	21:53		
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15		07:02 (KLZ_WT23)	05:34		
	16:51	7	09:26 (MXS_WT01)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	24	07:26 (KLZ_WT23)	21:54		
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13		07:02 (KLZ_WT23)	05:34		
	16:53	6	09:26 (MXS_WT01)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	23	07:25 (KLZ_WT23)	21:55		
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11		07:03 (KLZ_WT23)	05:33		
	16:54	5	09:25 (MXS_WT01)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	22	07:25 (KLZ_WT23)	21:56		
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09		07:04 (KLZ_WT23)	05:32		
	16:55	1	09:24 (MXS_WT01)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	15	07:47 (SAM_WT07)	21:16	19	07:23 (KLZ_WT23)	21:56		
8	08:48			08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08		07:05 (KLZ_WT23)	05:32		
	16:56			17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	14	07:46 (SAM_WT07)	21:17	16	07:21 (KLZ_WT23)	21:57		
9	08:48			08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06		07:07 (KLZ_WT23)	05:31		
	16:58			17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	12	07:45 (SAM_WT07)	21:19	13	07:20 (KLZ_WT23)	21:58		
10	08:47			08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04		07:09 (KLZ_WT23)	05:31		
	16:59			17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	9	07:43 (SAM_WT07)	21:21	8	07:17 (KLZ_WT23)	21:59		
11	08:46			08:08		08:32 (KLZ_WT11)	07:11		07:33 (SAM_WT05)	07:01		07:38 (SAM_WT07)	06:03			05:31		
	17:00			17:53	1	08:33 (KLZ_WT11)	18:42	8	07:41 (SAM_WT05)	20:34	1	07:39 (SAM_WT07)	21:22			22:00		
12	08:46			08:06		08:30 (KLZ_WT11)	07:08		07:31 (SAM_WT05)	06:59			06:01			05:30		
	17:02			17:55	4	08:34 (KLZ_WT11)	18:44	8	07:39 (SAM_WT05)	20:35			21:24			22:00		
13	08:45			08:04		08:28 (KLZ_WT11)	07:06			06:57			05:59			05:30		
	17:03			17:56	6	08:34 (KLZ_WT11)	18:45			20:37			21:25			22:01		
14	08:44			08:02		08:26 (KLZ_WT11)	07:04			06:55			05:58			05:30		
	17:05			17:58	8	08:34 (KLZ_WT11)	18:47			20:38			21:27			22:02		
15	08:44			08:00		08:24 (KLZ_WT11)	07:02			06:52			05:56			05:30		
	17:06			18:00	10	08:34 (KLZ_WT11)	18:49			20:40			21:28			22:02		
16	08:43			07:58		08:23 (KLZ_WT11)	06:59			06:50			05:55			05:30		
	17:08			18:02	10	08:33 (KLZ_WT11)	18:50			20:42			21:30			22:03		
17	08:42			07:57		08:25 (KLZ_WT11)	06:57			06:48			05:54			05:30		
	17:09			18:04	6	08:31 (KLZ_WT11)	18:52			20:43			21:31			22:03		
18	08:41			07:55			06:55			06:46			05:52			05:29		
	17:11			18:05			18:54			20:45			21:33			22:03		
19	08:40			07:53			06:53			06:44			05:51			05:30		
	17:12			18:07			18:55			20:47			21:34			22:04		
20	08:39		16:39 (KLZ_WT15)	07:51			06:50			06:42		07:12 (KLZ_WT23)	05:49			05:30		
	17:14	4	16:43 (KLZ_WT15)	18:09			18:57			20:48	9	07:21 (KLZ_WT23)	21:35			22:04		
21	08:38		09:05 (MVN_WT01)	07:49			06:48			06:40		07:03 (SAM_WT06)	05:48			05:30		
	17:16	9	16:44 (KLZ_WT15)	18:11			18:59			20:50	17	07:24 (KLZ_WT23)	21:37			22:04		
22	08:37		09:04 (MVN_WT01)	07:47			06:46			06:38		07:01 (SAM_WT06)	05:47			05:30		
	17:17	14	16:46 (KLZ_WT15)	18:12			19:00			20:52	23	07:25 (KLZ_WT23)	21:38			22:05		
23	08:36		09:03 (KLZ_WT10)	07:45			06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46			05:30		
	17:19	17	16:48 (KLZ_WT15)	18:14			19:02	2	07:08 (SAM_WT04)	20:53	27	07:26 (KLZ_WT23)	21:40			22:05		
24	08:35		09:02 (KLZ_WT10)	07:43			06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44			05:30		
	17:21	22	16:50 (KLZ_WT15)	18:16			19:04	3	07:07 (SAM_WT04)	20:55	30	07:27 (KLZ_WT23)	21:41			22:05		
25	08:34		09:00 (KLZ_WT10)	07:41			06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43			05:31		
	17:22	25	16:51 (KLZ_WT15)	18:18			19:05	4	07:05 (SAM_WT04)	20:57	32	07:27 (KLZ_WT23)	21:42			22:05		
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31		
	17:24	30	16:54 (KLZ_WT15)	18:20	2	08:04 (CBR_WT01)	19:07			20:58	35	07:28 (KLZ_WT23)	21:43			22:05		
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41			05:32		
	17:26	34	16:55 (KLZ_WT15)	18:21	7	08:07 (CBR_WT01)	19:09			21:00	36	07:28 (KLZ_WT23)	21:45			22:05		
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40			05:32		
	17:28	38	16:57 (KLZ_WT15)	18:23	10	08:07 (CBR_WT01)	19:10			21:01	35	07:28 (KLZ_WT23)	21:46			22:05		
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39			05:33		
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	33	07:28 (KLZ_WT23)	21:47			22:05		
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22		07:01 (KLZ_WT23)	05:38			05:33		
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05	27	07:28 (KLZ_WT23)	21:48			22:04		
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37					
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		350			300			166			405			202				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,97			0,97			0,97			0,97			0,97				
Wind dir. red.		0,64			0,66			0,56			0,64			0,64				
Total reduction		0,16			0,19			0,21			0,29			0,29				
Total, real		54			58			35			118			58				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34	06:09		06:57		07:37 (SAM_WT07)	07:44	08:11 (SAM_WT05)	07:37	16:11 (KLZ_WT15)	08:26	
	22:04	21:34		20:33	1	07:38 (SAM_WT07)	19:25	6 08:17 (SAM_WT05)	17:21	11 16:22 (KLZ_WT15)	16:42	
2	05:34	06:11	07:23 (KLZ_WT23)	06:59		07:32 (SAM_WT07)	07:46	08:11 (SAM_WT05)	07:38	16:09 (KLZ_WT15)	08:27	
	22:04	21:32	2 07:25 (KLZ_WT23)	20:31	9	07:41 (SAM_WT07)	19:23	8 08:19 (SAM_WT05)	17:19	15 16:24 (KLZ_WT15)	16:41	
3	05:35	06:12	07:18 (KLZ_WT23)	07:00		07:31 (SAM_WT07)	07:48	08:12 (SAM_WT05)	07:40	16:08 (KLZ_WT15)	08:29	
	22:04	21:30	11 07:29 (KLZ_WT23)	20:29	12	07:43 (SAM_WT07)	19:21	7 08:19 (SAM_WT05)	17:17	18 16:26 (KLZ_WT15)	16:41	
4	05:36	06:14	07:16 (KLZ_WT23)	07:02		07:29 (SAM_WT07)	07:49	08:14 (SAM_WT05)	07:42	16:05 (KLZ_WT15)	08:30	
	22:03	21:29	14 07:30 (KLZ_WT23)	20:27	14	07:43 (SAM_WT07)	19:19	6 08:20 (SAM_WT05)	17:16	21 16:26 (KLZ_WT15)	16:40	
5	05:37	06:15	07:15 (KLZ_WT23)	07:03		07:29 (SAM_WT07)	07:51	08:16 (SAM_WT05)	07:44	16:05 (KLZ_WT15)	08:31	
	22:03	21:27	17 07:32 (KLZ_WT23)	20:24	15	07:44 (SAM_WT07)	19:16	11 08:39 (CBR_WT01)	17:14	22 16:27 (KLZ_WT15)	16:40	
6	05:38	06:17	07:13 (KLZ_WT23)	07:05		07:30 (SAM_WT07)	07:53	08:17 (SAM_WT05)	07:45	16:04 (KLZ_WT15)	08:33	09:06 (MXS_WT01)
	22:02	21:25	20 07:33 (KLZ_WT23)	20:22	13	07:43 (SAM_WT07)	19:14	13 08:41 (CBR_WT01)	17:12	24 16:28 (KLZ_WT15)	16:39	5 09:11 (MXS_WT01)
7	05:38	06:18	07:13 (KLZ_WT23)	07:07		07:32 (SAM_WT07)	07:54	08:28 (CBR_WT01)	07:47	16:04 (KLZ_WT15)	08:34	09:07 (MXS_WT01)
	22:02	21:24	21 07:34 (KLZ_WT23)	20:20	11	07:43 (SAM_WT07)	19:12	14 08:42 (CBR_WT01)	17:11	24 16:28 (KLZ_WT15)	16:39	6 09:13 (MXS_WT01)
8	05:39	06:20	07:11 (KLZ_WT23)	07:08		07:33 (SAM_WT07)	07:56	08:27 (CBR_WT01)	07:49	08:29 (KLZ_WT10)	08:35	09:07 (MXS_WT01)
	22:01	21:22	24 07:35 (KLZ_WT23)	20:18	9	07:42 (SAM_WT07)	19:10	16 08:43 (CBR_WT01)	17:09	33 16:29 (KLZ_WT15)	16:39	7 09:14 (MXS_WT01)
9	05:40	06:21	07:11 (KLZ_WT23)	07:10		07:35 (SAM_WT07)	07:57	08:25 (CBR_WT01)	07:50	08:28 (KLZ_WT10)	08:36	09:08 (MXS_WT01)
	22:00	21:20	25 07:36 (KLZ_WT23)	20:15	7	07:42 (SAM_WT07)	19:08	18 08:43 (CBR_WT01)	17:07	36 16:29 (KLZ_WT15)	16:39	7 09:15 (MXS_WT01)
10	05:41	06:23	07:10 (KLZ_WT23)	07:11		07:36 (SAM_WT07)	07:59	08:25 (CBR_WT01)	07:52	08:28 (KLZ_WT10)	08:37	09:09 (MXS_WT01)
	22:00	21:18	26 07:36 (KLZ_WT23)	20:13	6	07:42 (SAM_WT11)	19:05	18 08:43 (CBR_WT01)	17:06	38 16:30 (KLZ_WT15)	16:38	7 09:16 (MXS_WT01)
11	05:42	06:24	07:09 (KLZ_WT23)	07:13		07:38 (SAM_WT11)	08:01	08:26 (CBR_WT01)	07:54	08:27 (KLZ_WT10)	08:38	09:10 (MXS_WT01)
	21:59	21:16	26 07:35 (KLZ_WT23)	20:11	6	07:44 (SAM_WT11)	19:03	17 08:43 (CBR_WT01)	17:04	40 16:30 (KLZ_WT15)	16:38	6 09:16 (MXS_WT01)
12	05:43	06:26	07:09 (KLZ_WT23)	07:14		07:39 (SAM_WT11)	08:02	08:28 (CBR_WT01)	07:56	08:26 (KLZ_WT10)	08:39	09:11 (MXS_WT01)
	21:58	21:14	27 07:36 (KLZ_WT23)	20:09	5	07:44 (SAM_WT11)	19:01	14 08:42 (CBR_WT01)	17:03	40 16:29 (KLZ_WT15)	16:38	6 09:17 (MXS_WT01)
13	05:44	06:27	07:09 (KLZ_WT23)	07:16		07:41 (SAM_WT11)	08:04	08:29 (CBR_WT01)	07:57	08:27 (KLZ_WT10)	08:40	09:12 (MXS_WT01)
	21:57	21:13	27 07:36 (KLZ_WT23)	20:06	3	07:44 (SAM_WT11)	18:59	12 08:41 (CBR_WT01)	17:01	39 16:29 (KLZ_WT15)	16:38	6 09:18 (MXS_WT01)
14	05:45	06:29	07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06	08:31 (CBR_WT01)	07:59	08:28 (KLZ_WT10)	08:41	09:13 (MXS_WT01)
	21:56	21:11	34 07:36 (KLZ_WT23)	20:04	1	07:43 (SAM_WT11)	18:57	9 08:40 (CBR_WT01)	17:00	38 16:29 (KLZ_WT15)	16:38	5 09:18 (MXS_WT01)
15	05:46	06:30	07:00 (SAM_WT06)	07:19			08:07	08:33 (CBR_WT01)	08:01	08:30 (KLZ_WT10)	08:42	09:14 (MXS_WT01)
	21:56	21:09	35 07:35 (KLZ_WT23)	20:02			18:55	5 08:38 (CBR_WT01)	16:59	34 16:28 (KLZ_WT15)	16:38	5 09:19 (MXS_WT01)
16	05:48	06:32	07:00 (SAM_WT06)	07:21			08:09		08:02	08:32 (KLZ_WT10)	08:43	09:15 (MXS_WT01)
	21:55	21:07	35 07:35 (KLZ_WT23)	20:00			18:53		16:57	30 16:27 (KLZ_WT15)	16:38	5 09:20 (MXS_WT01)
17	05:49	06:34	07:00 (SAM_WT06)	07:22			08:11		08:04	08:34 (KLZ_WT10)	08:44	09:16 (MXS_WT01)
	21:54	21:05	34 07:34 (KLZ_WT23)	19:57			18:50		16:56	25 16:25 (KLZ_WT15)	16:38	4 09:20 (MXS_WT01)
18	05:50	06:35	07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12		08:06	08:36 (KLZ_WT10)	08:45	09:16 (MXS_WT01)
	21:52	21:03	32 07:34 (KLZ_WT23)	19:55	4	07:53 (SAM_WT04)	18:48		16:55	22 16:24 (KLZ_WT15)	16:39	4 09:20 (MXS_WT01)
19	05:51	06:37	07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14		08:07	08:37 (KLZ_WT10)	08:45	09:17 (MXS_WT01)
	21:51	21:01	29 07:32 (KLZ_WT23)	19:53	4	07:54 (SAM_WT04)	18:46		16:53	17 16:22 (KLZ_WT15)	16:39	4 09:21 (MXS_WT01)
20	05:53	06:38	07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16		08:09	08:39 (MVN_WT01)	08:46	09:18 (MXS_WT01)
	21:50	20:59	27 07:32 (KLZ_WT23)	19:50	3	07:55 (SAM_WT04)	18:44		16:52	14 16:21 (KLZ_WT15)	16:39	4 09:22 (MXS_WT01)
21	05:54	06:40	07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18		08:11	08:41 (MVN_WT01)	08:47	09:18 (MXS_WT01)
	21:49	20:57	23 07:30 (KLZ_WT23)	19:48	1	07:54 (SAM_WT04)	18:42		16:51	9 16:20 (KLZ_WT15)	16:40	4 09:22 (MXS_WT01)
22	05:55	06:41	07:08 (SAM_WT06)	07:30			08:19		08:12	16:15 (KLZ_WT15)	08:47	09:19 (MXS_WT01)
	21:48	20:55	16 07:28 (KLZ_WT23)	19:46			18:40		16:50	4 16:19 (KLZ_WT15)	16:40	4 09:23 (MXS_WT01)
23	05:56	06:43	07:16 (KLZ_WT23)	07:32			08:21		08:14		08:48	09:19 (MXS_WT01)
	21:47	20:53	9 07:25 (KLZ_WT23)	19:44			18:38		16:49		16:41	4 09:23 (MXS_WT01)
24	05:58	06:45		07:33			08:23	08:57 (KLZ_WT11)	08:16		08:48	09:19 (MXS_WT01)
	21:45	20:50		19:41			18:36	3 09:00 (KLZ_WT11)	16:48		16:41	4 09:23 (MXS_WT01)
25	05:59	06:46		07:35			07:24	07:55 (KLZ_WT11)	08:17		08:48	09:20 (MXS_WT01)
	21:44	20:48		19:39			17:34	7 08:02 (KLZ_WT11)	16:47		16:42	4 09:24 (MXS_WT01)
26	06:00	06:48		07:36			07:26	07:54 (KLZ_WT11)	08:19		08:49	09:20 (MXS_WT01)
	21:43	20:46		19:37			17:32	10 08:04 (KLZ_WT11)	16:46		16:43	4 09:24 (MXS_WT01)
27	06:02	06:49		07:38			07:28	07:54 (KLZ_WT11)	08:20		08:49	09:20 (MXS_WT01)
	21:41	20:44		19:34			17:30	9 08:03 (KLZ_WT11)	16:45		16:43	5 09:25 (MXS_WT01)
28	06:03	06:51		07:40			07:30	07:56 (KLZ_WT11)	08:22		08:49	09:20 (MXS_WT01)
	21:40	20:42		19:32			17:28	8 08:04 (KLZ_WT11)	16:44		16:44	5 09:25 (MXS_WT01)
29	06:05	06:52		07:41			07:31	07:58 (KLZ_WT11)	08:23		08:49	09:20 (MXS_WT01)
	21:38	20:40		19:30			17:27	6 08:04 (KLZ_WT11)	16:44		16:45	5 09:25 (MXS_WT01)
30	06:06	06:54		07:43			07:33	08:00 (KLZ_WT11)	08:25		08:50	09:20 (MXS_WT01)
	21:37	20:38		19:28			17:25	3 08:03 (KLZ_WT11)	16:43		16:46	5 09:25 (MXS_WT01)
31	06:08	06:56					07:35				08:50	09:20 (MXS_WT01)
	21:35	20:35					17:23				16:47	6 09:26 (MXS_WT01)
Potential sun hours	498	451		380			333		269		248	
Total, worst case			514		124			220		554		131
Sun reduction			0,47		0,43			0,36		0,27		0,23
Oper. time red.			0,97		0,97			0,97		0,97		0,97
Wind dir. red.			0,65		0,63			0,55		0,67		0,53
Total reduction			0,29		0,27			0,20		0,18		0,12
Total, real			151		33			43		97		15

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		08:50 (SAM_WT04)	07:32		07:55 (KLZ_WT17)	07:23		07:45 (KLZ_WT01)	06:20			05:36		06:17 (TEN_WT01)
	16:48	114	15:57 (KLZ_WT13)	17:35	15	16:50 (EVE_WT02)	18:25	34	17:42 (EVE_WT01)	20:17	6	07:51 (KLZ_WT01)	21:06			21:51	16	06:33 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		07:53 (KLZ_WT17)	07:21		07:46 (KLZ_WT01)	06:18			05:36		06:19 (TEN_WT01)
	16:49	112	15:57 (KLZ_WT13)	17:36	12	16:48 (EVE_WT02)	18:26	36	17:41 (EVE_WT01)	20:19	2	07:48 (KLZ_WT01)	21:08			21:52	14	06:33 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		07:51 (KLZ_WT17)	07:19			06:16			05:35		06:19 (TEN_WT01)
	16:50	112	15:58 (KLZ_WT13)	17:38	7	09:09 (KLZ_WT05)	18:28	35	17:39 (EVE_WT01)	20:20			21:10			21:53	14	06:33 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT11)	07:26		07:49 (KLZ_WT17)	07:17			06:15			05:34		06:19 (TEN_WT01)
	16:51	110	15:57 (KLZ_WT13)	17:40	16	09:14 (KLZ_WT05)	18:30	32	17:36 (EVE_WT01)	20:22			21:11			21:54	13	06:32 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT11)	07:24		07:46 (SAM_WT08)	07:14			06:13			05:33		06:20 (TEN_WT01)
	16:52	109	15:58 (KLZ_WT13)	17:42	21	09:16 (KLZ_WT05)	18:32	26	08:12 (KLZ_WT04)	20:24			21:13			21:55	12	06:32 (TEN_WT01)
6	08:49		09:19 (SAM_WT05)	08:16		08:41 (SAM_WT11)	07:21		07:44 (SAM_WT08)	07:12			06:11			05:33		06:21 (TEN_WT01)
	16:54	107	15:57 (KLZ_WT13)	17:44	25	09:17 (KLZ_WT05)	18:33	28	08:12 (KLZ_WT04)	20:25			21:14			21:56	10	06:31 (TEN_WT01)
7	08:48		09:21 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		07:42 (KLZ_WT17)	07:10			06:09			05:32		06:22 (TEN_WT01)
	16:55	102	15:58 (KLZ_WT13)	17:45	29	09:18 (KLZ_WT05)	18:35	30	08:12 (KLZ_WT04)	20:27			21:16			21:57	9	06:31 (TEN_WT01)
8	08:48		09:36 (KLZ_WT23)	08:13		08:57 (KLZ_WT05)	07:17		07:40 (KLZ_WT17)	07:08			06:08			05:32		06:23 (TEN_WT01)
	16:56	94	15:57 (KLZ_WT13)	17:47	23	09:20 (KLZ_WT05)	18:37	32	08:12 (KLZ_WT04)	20:29			21:17			21:57	6	06:29 (TEN_WT01)
9	08:48		09:37 (KLZ_WT23)	08:11		08:56 (KLZ_WT05)	07:15		07:39 (KLZ_WT17)	07:05			06:06			05:31		06:24 (TEN_WT01)
	16:58	90	15:57 (KLZ_WT13)	17:49	25	09:21 (KLZ_WT05)	18:39	33	08:12 (KLZ_WT04)	20:30			21:19			21:58	5	06:29 (TEN_WT01)
10	08:47		09:37 (KLZ_WT23)	08:09		08:55 (KLZ_WT05)	07:13		07:38 (KLZ_WT17)	07:03			06:04			05:31		
	16:59	85	15:56 (KLZ_WT13)	17:51	26	09:21 (KLZ_WT05)	18:40	32	08:10 (KLZ_WT17)	20:32			21:21			21:59		
11	08:47		09:37 (KLZ_WT23)	08:08		08:55 (KLZ_WT05)	07:10		07:38 (KLZ_WT17)	07:01			06:03		06:28 (EAM_WT02)	05:31		
	17:00	75	15:55 (KLZ_WT13)	17:53	27	09:22 (KLZ_WT05)	18:42	32	08:10 (KLZ_WT17)	20:34			21:22	1	06:29 (EAM_WT02)	22:00		
12	08:46		09:38 (KLZ_WT23)	08:06		08:54 (KLZ_WT05)	07:08		07:39 (KLZ_WT17)	06:59			06:01			05:30		
	17:02	65	15:56 (KLZ_WT12)	17:54	28	09:22 (KLZ_WT05)	18:44	31	08:10 (KLZ_WT17)	20:35			21:24			22:00		
13	08:45		09:39 (KLZ_WT23)	08:04		08:54 (KLZ_WT05)	07:06		07:39 (KLZ_WT17)	06:57			05:59		06:25 (EAM_WT01)	05:30		
	17:03	65	15:56 (KLZ_WT12)	17:56	28	09:22 (KLZ_WT05)	18:45	30	08:09 (KLZ_WT17)	20:37			21:25	2	06:27 (EAM_WT01)	22:01		
14	08:45		09:39 (KLZ_WT23)	08:02		08:26 (SAM_WT06)	07:04		07:39 (KLZ_WT17)	06:55			05:58		06:23 (EAM_WT01)	05:30		
	17:05	64	15:56 (KLZ_WT12)	17:58	30	09:22 (KLZ_WT05)	18:47	28	08:07 (KLZ_WT17)	20:38			21:27	4	06:27 (TEN_WT01)	22:02		
15	08:44		09:39 (KLZ_WT23)	08:00		08:24 (SAM_WT06)	07:02		07:40 (KLZ_WT17)	06:52			05:56		06:22 (EAM_WT01)	05:30		
	17:06	63	15:56 (KLZ_WT12)	18:00	34	09:22 (KLZ_WT05)	18:49	26	08:06 (KLZ_WT17)	20:40			21:28	7	06:29 (TEN_WT01)	22:02		
16	08:43		09:40 (KLZ_WT23)	07:58		08:22 (SAM_WT06)	06:59		07:41 (KLZ_WT17)	06:50			05:55		06:21 (EAM_WT01)	05:29		
	17:08	64	16:35 (EVE_WT02)	18:02	43	17:34 (EVE_WT01)	18:50	23	08:04 (KLZ_WT17)	20:42			21:30	10	06:31 (TEN_WT01)	22:03		
17	08:42		09:10 (SAM_WT07)	07:57		08:20 (SAM_WT06)	06:57		07:42 (KLZ_WT17)	06:48			05:53		06:19 (TEN_WT01)	05:29		
	17:09	67	16:37 (EVE_WT02)	18:03	48	17:36 (EVE_WT01)	18:52	19	08:01 (KLZ_WT17)	20:43			21:31	12	06:31 (TEN_WT01)	22:03		
18	08:41		09:09 (SAM_WT07)	07:55		08:18 (SAM_WT06)	06:55		07:44 (KLZ_WT17)	06:46			05:52		06:18 (TEN_WT01)	05:29		
	17:11	70	16:39 (EVE_WT02)	18:05	54	17:38 (EVE_WT01)	18:54	15	07:59 (KLZ_WT17)	20:45			21:33	14	06:32 (TEN_WT01)	22:04		
19	08:40		09:08 (SAM_WT07)	07:53		08:16 (SAM_WT06)	06:53		07:49 (KLZ_WT17)	06:44			05:51		06:17 (TEN_WT01)	05:29		
	17:12	72	16:41 (EVE_WT02)	18:07	57	17:40 (EVE_WT01)	18:55	5	07:54 (KLZ_WT17)	20:47			21:34	16	06:33 (TEN_WT01)	22:04		
20	08:39		09:07 (SAM_WT07)	07:51		08:15 (SAM_WT06)	06:50			06:42			05:49		06:16 (TEN_WT01)	05:30		
	17:14	74	16:43 (EVE_WT02)	18:09	57	17:42 (EVE_WT01)	18:57			20:48			21:35	18	06:34 (TEN_WT01)	22:04		
21	08:38		09:05 (SAM_WT07)	07:49		08:16 (SAM_WT06)	06:48			06:40			05:48		06:15 (TEN_WT01)	05:30		
	17:16	74	16:44 (EVE_WT02)	18:11	56	17:44 (EVE_WT01)	18:59			20:50			21:37	18	06:33 (TEN_WT01)	22:04		
22	08:37		09:04 (SAM_WT07)	07:47		08:16 (SAM_WT06)	06:46			06:38		07:01 (SAM_WT10)	05:47		06:15 (TEN_WT01)	05:30		
	17:17	75	16:46 (EVE_WT02)	18:12	52	17:46 (EVE_WT01)	19:00			20:52	2	07:03 (SAM_WT10)	21:38	19	06:34 (TEN_WT01)	22:05		
23	08:36		09:03 (SAM_WT07)	07:45		08:18 (SAM_WT06)	06:44			06:36		06:59 (SAM_WT10)	05:46		06:15 (TEN_WT01)	05:30		
	17:19	74	16:48 (EVE_WT02)	18:14	41	17:46 (EVE_WT01)	19:02			20:53	3	07:02 (SAM_WT10)	21:40	19	06:34 (TEN_WT01)	22:05		
24	08:35		09:02 (SAM_WT07)	07:43		08:20 (SAM_WT06)	06:41		07:04 (KLZ_WT02)	06:34		06:57 (SAM_WT10)	05:44		06:15 (TEN_WT01)	05:30		
	17:21	71	16:50 (EVE_WT02)	18:16	32	17:46 (EVE_WT01)	19:04	1	07:05 (KLZ_WT02)	20:55	5	07:02 (SAM_WT10)	21:41	19	06:34 (TEN_WT01)	22:05		
25	08:34		09:01 (SAM_WT07)	07:41		17:20 (EVE_WT01)	06:39		07:01 (KLZ_WT02)	06:32		06:55 (SAM_WT10)	05:43		06:15 (TEN_WT01)	05:31		
	17:22	68	16:51 (EVE_WT02)	18:18	26	17:46 (EVE_WT01)	19:05	4	07:05 (KLZ_WT02)	20:57	6	07:01 (SAM_WT10)	21:42	19	06:34 (TEN_WT01)	22:05		
26	08:32		09:01 (SAM_WT07)	07:38		17:20 (EVE_WT01)	06:37		06:59 (KLZ_WT02)	06:30		06:53 (SAM_WT10)	05:42		06:15 (TEN_WT01)	05:31		
	17:24	55	16:53 (EVE_WT02)	18:19	26	17:46 (EVE_WT01)	19:07	6	07:05 (KLZ_WT02)	20:58	6	06:59 (SAM_WT10)	21:43	19	06:34 (TEN_WT01)	22:05		
27	08:31		09:02 (SAM_WT07)	07:36		08:00 (KLZ_WT17)	06:35		06:57 (KLZ_WT02)	06:28		06:52 (SAM_WT10)	05:41		06:15 (TEN_WT01)	05:32		
	17:26	47	16:52 (EVE_WT02)	18:21	27	17:45 (EVE_WT01)	19:09	8	07:05 (KLZ_WT02)	21:00	5	06:57 (SAM_WT10)	21:45	19	06:34 (TEN_WT01)	22:05		
28	08:30		09:03 (SAM_WT07)	07:34		07:57 (KLZ_WT17)	06:32		06:54 (KLZ_WT02)	06:26			05:40		06:15 (TEN_WT01)	05:32		
	17:28	38	16:53 (EVE_WT02)	18:23	30	17:43 (EVE_WT01)	19:10	10	07:04 (KLZ_WT02)	21:01			21:46	19	06:34 (TEN_WT01)	22:05		
29	08:28		09:03 (SAM_WT07)				07:30		07:52 (KLZ_WT01)	06:24			05:39		06:17 (TEN_WT01)	05:33		
	17:29	31	16:52 (EVE_WT02)				20:12	9	08:03 (KLZ_WT02)	21:03			21:47	17	06:34 (TEN_WT01)	22:05		
30	08:27		09:06 (SAM_WT07)				07:28		07:50 (KLZ_WT01)	06:22			05:38		06:17 (TEN_WT01)	05:33		
	17:31	25	16:52 (EVE_WT02)				20:14	5	08:00 (KLZ_WT02)	21:05			21:48	17	06:34 (TEN_WT01)	22:05		
31	08:26		08:51 (SAM_WT04)				07:25		07:48 (KLZ_WT01)				05:37		06:17 (TEN_WT01)			
	17:33	18	16:51 (EVE_WT02)				20:15	5	07:53 (KLZ_WT01)				21:49	17	06:34 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2290			895			575			35			286			99	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,66			0,59			0,57			0,65			0,70			0,70	
Total reduction		0,16			0,17			0,21			0,29			0,31			0,30	
Total, real		365			156			121			10			89			30	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09			06:57			07:44		08:18 (KLZ_WT17)	07:37		08:25 (KLZ_WT05)	08:26		09:19 (KLZ_WT23)
	22:04			21:34			20:33			19:25	30	08:48 (KLZ_WT17)	17:21	26	08:51 (KLZ_WT05)	16:42	74	15:37 (KLZ_WT13)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT17)	07:38		08:26 (KLZ_WT05)	08:27		09:20 (KLZ_WT23)
	22:04			21:32			20:31			19:23	32	08:49 (KLZ_WT17)	17:19	24	08:50 (KLZ_WT05)	16:41	82	15:39 (KLZ_WT13)
3	05:35		06:30 (TEN_WT01)	06:12			07:00			07:48		08:16 (KLZ_WT17)	07:40		08:12 (SAM_WT11)	08:29		09:20 (KLZ_WT23)
	22:04	3	06:33 (TEN_WT01)	21:30			20:29			19:21	32	08:48 (KLZ_WT17)	17:17	26	08:50 (KLZ_WT05)	16:41	90	15:40 (KLZ_WT13)
4	05:36		06:29 (TEN_WT01)	06:13			07:02			07:49		08:16 (KLZ_WT17)	07:42		08:09 (SAM_WT11)	08:30		09:21 (KLZ_WT23)
	22:03	6	06:35 (TEN_WT01)	21:29			20:27			19:19	32	08:48 (KLZ_WT17)	17:16	29	08:48 (KLZ_WT05)	16:40	94	15:42 (KLZ_WT13)
5	05:37		06:28 (TEN_WT01)	06:15			07:03			07:51		08:16 (KLZ_WT17)	07:44		08:11 (SAM_WT11)	08:31		09:06 (SAM_WT05)
	22:03	8	06:36 (TEN_WT01)	21:27			20:24			19:16	32	08:48 (KLZ_WT04)	17:14	25	08:47 (KLZ_WT05)	16:40	102	15:43 (KLZ_WT13)
6	05:37		06:27 (TEN_WT01)	06:16			07:05			07:53		08:17 (KLZ_WT17)	07:45		08:13 (SAM_WT11)	08:33		09:05 (SAM_WT05)
	22:02	10	06:37 (TEN_WT01)	21:25			20:22			19:14	31	08:48 (KLZ_WT04)	17:12	21	08:46 (KLZ_WT05)	16:39	106	15:43 (KLZ_WT13)
7	05:38		06:27 (TEN_WT01)	06:18			07:07			07:54		08:19 (SAM_WT08)	07:47		08:15 (SAM_WT11)	08:34		09:06 (SAM_WT05)
	22:02	11	06:38 (TEN_WT01)	21:24			20:20			19:12	29	08:48 (KLZ_WT04)	17:11	16	08:44 (KLZ_WT05)	16:39	109	15:45 (KLZ_WT13)
8	05:39		06:27 (TEN_WT01)	06:20			07:08			07:56		08:21 (SAM_WT08)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	12	06:39 (TEN_WT01)	21:22			20:18			19:10	27	08:48 (KLZ_WT04)	17:09	5	08:22 (SAM_WT04)	16:39	110	15:45 (KLZ_WT13)
9	05:40		06:26 (TEN_WT01)	06:21			07:10			07:57		08:22 (KLZ_WT17)	07:51		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:20			20:15			19:08	25	08:47 (KLZ_WT04)	17:07	13	16:19 (EVE_WT02)	16:38	111	15:46 (KLZ_WT13)
10	05:41		06:26 (TEN_WT01)	06:23			07:11			07:59		08:24 (KLZ_WT17)	07:52		08:21 (SAM_WT04)	08:37		09:09 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:18			20:13			19:05	33	18:12 (EVE_WT01)	17:06	15	16:21 (EVE_WT02)	16:38	112	15:46 (KLZ_WT13)
11	05:42		06:26 (TEN_WT01)	06:24			07:13		07:38 (KLZ_WT01)	08:01		08:26 (KLZ_WT17)	07:54		08:23 (SAM_WT04)	08:38		09:10 (SAM_WT05)
	21:59	15	06:41 (TEN_WT01)	21:16			20:11	6	07:44 (KLZ_WT01)	19:03	36	18:14 (EVE_WT01)	17:04	20	16:23 (EVE_WT02)	16:38	114	15:47 (KLZ_WT13)
12	05:43		06:26 (TEN_WT01)	06:26			07:14		07:39 (KLZ_WT01)	08:02		08:28 (KLZ_WT17)	07:56		08:36 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	16	06:42 (TEN_WT01)	21:14			20:09	5	07:44 (KLZ_WT01)	19:01	35	18:16 (EVE_WT01)	17:03	26	16:23 (EVE_WT02)	16:38	113	15:48 (KLZ_WT13)
13	05:44		06:25 (TEN_WT01)	06:27			07:16		07:41 (KLZ_WT01)	08:04		08:29 (KLZ_WT17)	07:57		08:35 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	17	06:42 (TEN_WT01)	21:13			20:06	3	07:44 (KLZ_WT01)	18:59	34	18:16 (EVE_WT01)	17:01	31	16:24 (EVE_WT02)	16:38	114	15:48 (KLZ_WT13)
14	05:45		06:25 (TEN_WT01)	06:29			07:17		07:42 (KLZ_WT01)	08:06		08:31 (KLZ_WT17)	07:59		08:35 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:57	18	06:43 (TEN_WT01)	21:11			20:04	8	07:53 (KLZ_WT02)	18:57	30	18:17 (EVE_WT01)	17:00	37	16:24 (EVE_WT02)	16:38	114	15:49 (KLZ_WT13)
15	05:46		06:25 (TEN_WT01)	06:30			07:19		07:45 (KLZ_WT02)	08:07		17:53 (EVE_WT01)	08:01		08:34 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56	18	06:43 (TEN_WT01)	21:09			20:02	9	07:54 (KLZ_WT02)	18:55	25	18:18 (EVE_WT01)	16:59	48	16:25 (EVE_WT02)	16:38	114	15:50 (KLZ_WT13)
16	05:48		06:25 (TEN_WT01)	06:32		06:59 (SAM_WT10)	07:21		07:45 (KLZ_WT02)	08:09		17:52 (EVE_WT01)	08:03		08:34 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55	18	06:43 (TEN_WT01)	21:07	6	07:05 (SAM_WT10)	20:00	9	07:54 (KLZ_WT02)	18:52	26	18:18 (EVE_WT01)	16:57	55	16:26 (EVE_WT02)	16:38	115	15:50 (KLZ_WT13)
17	05:49		06:25 (TEN_WT01)	06:34		07:00 (SAM_WT10)	07:22		07:47 (KLZ_WT02)	08:11		17:51 (EVE_WT01)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54	19	06:44 (TEN_WT01)	21:05	6	07:06 (SAM_WT10)	19:57	7	07:54 (KLZ_WT02)	18:50	26	18:17 (EVE_WT01)	16:56	69	16:25 (EVE_WT02)	16:38	116	15:51 (KLZ_WT13)
18	05:50		06:24 (TEN_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:49 (KLZ_WT02)	08:12		08:50 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53	20	06:44 (TEN_WT01)	21:03	5	07:07 (SAM_WT10)	19:55	5	07:54 (KLZ_WT02)	18:48	35	18:17 (EVE_WT01)	16:55	71	16:24 (EVE_WT02)	16:39	119	15:51 (KLZ_WT13)
19	05:51		06:24 (TEN_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (KLZ_WT02)	08:14		08:49 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	20	06:44 (TEN_WT01)	21:01	4	07:07 (SAM_WT10)	19:53	2	07:52 (KLZ_WT02)	18:46	45	18:17 (EVE_WT01)	16:53	74	16:22 (EVE_WT02)	16:39	121	15:52 (KLZ_WT13)
20	05:52		06:24 (TEN_WT01)	06:38		07:05 (SAM_WT10)	07:27			08:16		08:48 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	20	06:44 (TEN_WT01)	20:59	3	07:08 (SAM_WT10)	19:50			18:44	52	18:16 (EVE_WT01)	16:52	75	16:21 (EVE_WT02)	16:39	122	15:53 (KLZ_WT13)
21	05:54		06:25 (TEN_WT01)	06:40		07:06 (SAM_WT10)	07:28			08:18		08:46 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	19	06:44 (TEN_WT01)	20:57	1	07:07 (SAM_WT10)	19:48			18:42	57	18:14 (EVE_WT01)	16:51	75	16:20 (EVE_WT02)	16:40	122	15:53 (KLZ_WT13)
22	05:55		06:25 (TEN_WT01)	06:41			07:30			08:19		08:46 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	19	06:44 (TEN_WT01)	20:55			19:46			18:40	57	18:12 (EVE_WT01)	16:50	74	16:19 (EVE_WT02)	16:40	121	15:53 (KLZ_WT13)
23	05:56		06:25 (TEN_WT01)	06:43			07:32			08:21		08:47 (SAM_WT06)	08:14		08:44 (SAM_WT07)	08:48		09:19 (SAM_WT05)
	21:47	19	06:44 (TEN_WT01)	20:53			19:44			18:38	56	18:10 (EVE_WT01)	16:49	72	16:17 (EVE_WT02)	16:41	122	15:54 (KLZ_WT13)
24	05:58		06:26 (TEN_WT01)	06:44			07:33			08:23		08:49 (SAM_WT06)	08:16		08:46 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:45	17	06:43 (TEN_WT01)	20:50			19:41			18:36	53	18:08 (EVE_WT01)	16:48	69	16:16 (EVE_WT02)	16:41	120	15:55 (KLZ_WT13)
25	05:59		06:28 (TEN_WT01)	06:46			07:35		08:28 (KLZ_WT17)	07:24		07:51 (SAM_WT06)	08:17		08:48 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:44	15	06:43 (TEN_WT01)	20:48			19:39	13	08:41 (KLZ_WT17)	17:34	47	17:06 (EVE_WT01)	16:47	67	16:15 (EVE_WT02)	16:42	120	15:55 (KLZ_WT13)
26	06:00		06:29 (TEN_WT01)	06:48			07:36		08:25 (KLZ_WT17)	07:26		07:53 (SAM_WT06)	08:19		09:18 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:43	13	06:42 (TEN_WT01)	20:46			19:37	18	08:43 (KLZ_WT17)	17:32	40	17:04 (EVE_WT01)	16:46	65	16:14 (EVE_WT02)	16:43	117	15:55 (KLZ_WT13)
27	06:02		06:30 (TEN_WT01)	06:49			07:38		08:24 (KLZ_WT17)	07:28		07:54 (SAM_WT06)	08:20		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:41	11	06:41 (TEN_WT01)	20:44			19:34	22	08:46 (KLZ_WT17)	17:30	33	08:51 (KLZ_WT05)	16:45	62	15:35 (KLZ_WT12)	16:43	115	15:55 (KLZ_WT13)
28	06:03		06:32 (EAM_WT01)	06:51			07:40		08:21 (KLZ_WT17)	07:30		07:56 (SAM_WT06)	08:22		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:40	9	06:41 (TEN_WT01)	20:42			19:32	25	08:46 (KLZ_WT17)	17:28	29	08:51 (KLZ_WT05)	16:44	64	15:36 (KLZ_WT12)	16:44	114	15:55 (KLZ_WT13)
29	06:05		06:33 (EAM_WT01)	06:52			07:41		08:20 (KLZ_WT17)	07:31		08:24 (KLZ_WT05)	08:23		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:38	6	06:39 (TEN_WT01)	20:40			19:30	27	08:47 (KLZ_WT17)	17:26	28	08:52 (KLZ_WT05)	16:43	64	15:36 (KLZ_WT12)	16:45	113	15:56 (KLZ_WT13)
30	06:06		06:34 (EAM_WT01)	06:54			07:43		08:18 (KLZ_WT17)	07:33		08:24 (KLZ_WT05)	08:25		09:19 (KLZ_WT23)	08:50		09:20 (SAM_WT05)
	21:37	2	06:36 (EAM_WT01)	20:38			19:28	29	08:47 (KLZ_WT17)	17:25	28	08:52 (KLZ_WT05)	16:43	66	15:37 (KLZ_WT12)	16:46	115	15:56 (KLZ_WT13)
31	06:08		06:36 (EAM_WT01)	06:55						07:35		08:24 (KLZ_WT05)				08:50		09:20 (SAM_WT05)
	21:35	1	06:37 (EAM_WT01)	20:35						17:23	27	08:51 (KLZ_WT05)				16:47	113	15:56 (KLZ_WT13)
Potential sun hours	498			452			380			333			269			248		
Total, worst case	390			25			188			1102			1384			3444		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,70			0,66			0,57			0,59			0,64			0,67		
Total reduction	0,30			0,30			0,24			0,21			0,17			0,15		
Total, real	119			7			46			230			231			508		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32		08:12 (SAM_WT06)	07:23			06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	144	14:59 (KLZ_WT20)	17:35	87	17:05 (EVE_WT02)	18:25	48	17:59 (EVE_WT01)	20:17			21:06	6	06:50 (SAM_WT10)	21:51	9	06:13 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		08:32 (KLZ_WT05)	07:21		07:43 (KLZ_WT02)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	146	14:59 (KLZ_WT20)	17:36	83	17:07 (EVE_WT02)	18:26	47	18:01 (EVE_WT01)	20:19	3	07:46 (KLZ_WT02)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		08:32 (KLZ_WT05)	07:19		07:41 (KLZ_WT02)	06:16		06:40 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	145	15:00 (KLZ_WT20)	17:38	77	17:09 (EVE_WT02)	18:28	50	18:03 (EVE_WT01)	20:20	6	07:47 (KLZ_WT02)	21:10	7	06:47 (SAM_WT10)	21:53	12	06:15 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:32 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:40 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	148	15:00 (KLZ_WT20)	17:40	56	17:11 (EVE_WT02)	18:30	54	18:05 (EVE_WT01)	20:22	8	07:47 (KLZ_WT02)	21:11	6	06:46 (SAM_WT10)	21:54	13	06:15 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:31 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	147	15:00 (KLZ_WT20)	17:42	59	17:13 (EVE_WT02)	18:32	55	18:06 (EVE_WT01)	20:24	10	07:47 (KLZ_WT02)	21:13			21:55	14	06:16 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:31 (KLZ_WT05)	07:12		07:34 (KLZ_WT01)	06:11			05:33		06:01 (TEN_WT01)
	16:54	149	16:20 (KLZ_WT13)	17:44	62	17:15 (EVE_WT02)	18:33	58	18:08 (EVE_WT01)	20:25	12	07:46 (KLZ_WT02)	21:14			21:56	15	06:16 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		08:32 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	151	16:22 (KLZ_WT13)	17:45	64	17:16 (EVE_WT02)	18:35	58	18:10 (EVE_WT01)	20:27	13	07:45 (KLZ_WT02)	21:16			21:57	16	06:17 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT11)	07:17		07:40 (SAM_WT08)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	155	16:23 (KLZ_WT13)	17:47	66	17:18 (EVE_WT02)	18:37	60	18:10 (EVE_WT01)	20:29	12	07:43 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:19 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	154	16:25 (KLZ_WT13)	17:49	66	17:18 (EVE_WT02)	18:39	62	18:10 (EVE_WT01)	20:30	7	07:35 (KLZ_WT01)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:20 (SAM_WT05)	08:09		08:35 (SAM_WT11)	07:13		07:35 (KLZ_WT17)	07:03		07:30 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	154	16:26 (KLZ_WT13)	17:51	63	17:17 (EVE_WT02)	18:40	65	18:09 (EVE_WT01)	20:32	3	07:33 (KLZ_WT01)	21:21			21:59	18	06:18 (TEN_WT01)
11	08:46		09:22 (SAM_WT05)	08:08		08:37 (SAM_WT11)	07:10		07:33 (KLZ_WT17)	07:01			06:03			05:31		06:00 (TEN_WT01)
	17:00	148	16:27 (KLZ_WT13)	17:53	57	17:16 (EVE_WT02)	18:42	66	18:08 (EVE_WT01)	20:34			21:22			22:00	19	06:19 (TEN_WT01)
12	08:46		09:37 (KLZ_WT23)	08:06		16:21 (KLZ_WT12)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	149	16:29 (KLZ_WT13)	17:54	49	17:15 (EVE_WT02)	18:44	63	18:07 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		09:37 (KLZ_WT23)	08:04		16:21 (KLZ_WT12)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	149	16:31 (KLZ_WT13)	17:56	45	17:13 (EVE_WT02)	18:45	60	18:06 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		09:37 (KLZ_WT23)	08:02		16:22 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:00 (TEN_WT01)
	17:05	148	16:32 (KLZ_WT13)	17:58	35	17:09 (EVE_WT02)	18:47	54	18:04 (EVE_WT01)	20:38			21:27			22:02	19	06:19 (TEN_WT01)
15	08:44		09:38 (KLZ_WT23)	08:00		16:23 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:00 (TEN_WT01)
	17:06	148	16:34 (KLZ_WT13)	18:00	31	16:54 (KLZ_WT12)	18:49	41	18:02 (EVE_WT01)	20:40			21:28			22:02	20	06:20 (TEN_WT01)
16	08:43		09:38 (KLZ_WT23)	07:58		16:24 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	146	16:35 (KLZ_WT13)	18:02	29	16:53 (KLZ_WT12)	18:50	31	07:53 (KLZ_WT17)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		09:38 (KLZ_WT23)	07:57		16:26 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53		06:19 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:09	147	16:37 (KLZ_WT13)	18:03	26	16:52 (KLZ_WT12)	18:52	34	07:53 (KLZ_WT17)	20:43			21:31	1	06:20 (EAM_WT02)	22:03	19	06:20 (TEN_WT01)
18	08:41		09:39 (KLZ_WT23)	07:55		08:18 (SAM_WT06)	06:55		07:17 (KLZ_WT17)	06:46			05:52		06:18 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:11	144	16:39 (KLZ_WT13)	18:05	24	16:50 (KLZ_WT12)	18:54	36	07:53 (KLZ_WT17)	20:45			21:33	1	06:19 (EAM_WT02)	22:04	19	06:20 (TEN_WT01)
19	08:40		09:39 (KLZ_WT23)	07:53		08:16 (SAM_WT06)	06:53		07:17 (KLZ_WT17)	06:44			05:51			05:29		06:01 (TEN_WT01)
	17:12	140	16:39 (KLZ_WT13)	18:07	26	16:48 (KLZ_WT12)	18:55	36	07:53 (KLZ_WT17)	20:47			21:34			22:04	20	06:21 (TEN_WT01)
20	08:39		09:07 (SAM_WT07)	07:51		08:14 (SAM_WT06)	06:50		07:16 (KLZ_WT17)	06:42			05:49		06:16 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:14	137	16:40 (KLZ_WT13)	18:09	35	16:45 (KLZ_WT12)	18:57	37	07:53 (KLZ_WT17)	20:48			21:35	1	06:17 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
21	08:38		09:05 (SAM_WT07)	07:49		08:12 (SAM_WT06)	06:48		07:16 (KLZ_WT17)	06:40			05:48		06:14 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:16	133	16:40 (KLZ_WT13)	18:11	32	09:02 (KLZ_WT05)	18:59	36	07:52 (KLZ_WT17)	20:50			21:37	2	06:16 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
22	08:37		09:04 (SAM_WT07)	07:47		08:10 (SAM_WT06)	06:46		07:16 (KLZ_WT17)	06:38			05:47		06:13 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:17	119	16:40 (KLZ_WT13)	18:12	39	09:04 (KLZ_WT05)	19:00	36	07:52 (KLZ_WT17)	20:52			21:38	3	06:16 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
23	08:36		09:03 (SAM_WT07)	07:45		08:08 (SAM_WT06)	06:44		07:16 (KLZ_WT17)	06:36			05:46		06:12 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:19	119	16:42 (KLZ_WT12)	18:14	44	09:05 (KLZ_WT05)	19:02	35	07:51 (KLZ_WT17)	20:53			21:40	3	06:15 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:07 (SAM_WT06)	06:41		07:16 (KLZ_WT17)	06:34			05:44		06:11 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:21	121	16:45 (KLZ_WT12)	18:16	47	09:06 (KLZ_WT05)	19:04	35	07:51 (KLZ_WT17)	20:55			21:41	3	06:14 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:08 (SAM_WT06)	06:39		07:16 (KLZ_WT17)	06:32			05:43		06:10 (EAM_WT01)	05:31		06:03 (TEN_WT01)
	17:22	122	16:46 (KLZ_WT12)	18:18	48	09:07 (KLZ_WT05)	19:05	33	07:49 (KLZ_WT17)	20:57			21:42	3	06:13 (EAM_WT01)	22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:08 (SAM_WT06)	06:37		07:17 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	120	16:48 (KLZ_WT12)	18:19	49	09:08 (KLZ_WT05)	19:07	31	07:48 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:09 (SAM_WT06)	06:35		07:18 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	117	16:49 (KLZ_WT12)	18:21	49	09:09 (KLZ_WT05)	19:09	29	07:47 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:57 (SAM_WT07)	07:34		08:10 (SAM_WT06)	06:32		07:18 (KLZ_WT17)	06:26		06:49 (SAM_WT10)	05:40			05:32		06:03 (TEN_WT01)
	17:28	115	16:51 (KLZ_WT12)	18:23	46	09:08 (KLZ_WT05)	19:10	26	07:44 (KLZ_WT17)	21:01	1	06:50 (SAM_WT10)	21:46			22:05	20	06:23 (TEN_WT01)
29	08:28		08:57 (SAM_WT07)				07:30		08:20 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	109	16:52 (KLZ_WT12)				20:12	22	08:42 (KLZ_WT17)	21:03	3	06:51 (SAM_WT10)	21:47	1	06:08 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:58 (SAM_WT07)				07:28		08:22 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	101	16:53 (KLZ_WT12)				20:14	18	08:40 (KLZ_WT17)	21:05	4	06:50 (SAM_WT10)	21:48	5	06:11 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:58 (SAM_WT07)				07:25		08:25 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	89	17:03 (EVE_WT02)				20:15	11	08:36 (KLZ_WT17)				21:49	7	06:12 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		4214			1394			1327			82			55			531	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,66			0,66			0,59			0,64			0,69			0,71	
Total reduction		0,16			0,19			0,22			0,29			0,31			0,31	
Total, real		671			269			289			24			17			162	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Project:
WP Kluizendok v1

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57			07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		09:18 (KLZ_WT23)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33			19:25	63	18:46 (EVE_WT01)	17:21	65	16:47 (EVE_WT02)	16:42	150	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:28 (KLZ_WT01)	07:46		08:11 (KLZ_WT17)	07:38		08:06 (SAM_WT11)	08:27		09:03 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	3	07:31 (KLZ_WT01)	19:23	64	18:47 (EVE_WT01)	17:19	67	16:48 (EVE_WT02)	16:41	153	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (KLZ_WT17)	07:40		08:08 (SAM_WT11)	08:29		09:02 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	7	07:33 (KLZ_WT01)	19:21	65	18:46 (EVE_WT01)	17:17	66	16:48 (EVE_WT02)	16:41	154	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT11)	08:30		09:02 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:29			20:27	12	07:40 (KLZ_WT02)	19:19	64	18:47 (EVE_WT01)	17:16	64	16:46 (EVE_WT02)	16:40	155	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:16 (SAM_WT08)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	13	07:42 (KLZ_WT02)	19:16	60	18:47 (EVE_WT01)	17:14	61	16:44 (EVE_WT02)	16:40	153	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:16			07:05		07:30 (KLZ_WT01)	07:53		08:17 (SAM_WT08)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	12	07:42 (KLZ_WT02)	19:14	60	18:46 (EVE_WT01)	17:12	58	16:42 (EVE_WT02)	16:39	149	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		09:07 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	10	07:42 (KLZ_WT02)	19:12	59	18:45 (EVE_WT01)	17:11	59	16:41 (EVE_WT02)	16:39	146	14:47 (KLZ_WT20)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		09:07 (KLZ_WT05)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	8	07:41 (KLZ_WT02)	19:10	57	18:43 (EVE_WT01)	17:09	76	16:39 (EVE_WT02)	16:39	147	14:48 (KLZ_WT20)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10		07:35 (KLZ_WT02)	07:57		09:06 (KLZ_WT05)	07:50		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	7	06:56 (SAM_WT10)	20:15	6	07:41 (KLZ_WT02)	19:08	55	18:40 (EVE_WT01)	17:07	83	16:38 (EVE_WT02)	16:38	145	14:48 (KLZ_WT20)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		07:36 (KLZ_WT02)	07:59		09:06 (KLZ_WT05)	07:52		08:31 (SAM_WT07)	08:37		09:09 (SAM_WT05)
	22:00	11	06:22 (TEN_WT01)	21:18	7	06:57 (SAM_WT10)	20:13	3	07:39 (KLZ_WT02)	19:05	52	18:38 (EVE_WT01)	17:06	87	16:36 (EVE_WT02)	16:38	146	14:48 (KLZ_WT20)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13			08:01		09:06 (KLZ_WT05)	07:54		08:30 (SAM_WT07)	08:38		09:10 (SAM_WT05)
	21:59	10	06:22 (TEN_WT01)	21:16	6	06:57 (SAM_WT10)	20:11			19:03	49	18:36 (EVE_WT01)	17:04	92	16:35 (EVE_WT02)	16:38	144	14:49 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:17 (KLZ_WT17)	08:02		09:06 (KLZ_WT05)	07:56		08:29 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	8	06:21 (TEN_WT01)	21:14	5	06:58 (SAM_WT10)	20:09	10	08:27 (KLZ_WT17)	19:01	45	18:34 (EVE_WT01)	17:03	101	16:24 (KLZ_WT12)	16:38	144	14:49 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:14 (KLZ_WT17)	08:04		08:44 (SAM_WT06)	07:57		08:29 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	6	06:20 (TEN_WT01)	21:13	4	06:58 (SAM_WT10)	20:06	17	08:31 (KLZ_WT17)	18:59	47	18:31 (EVE_WT01)	17:01	109	16:24 (KLZ_WT12)	16:38	144	14:50 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:10 (KLZ_WT17)	08:06		08:42 (SAM_WT06)	07:59		08:29 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:56	4	06:19 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	22	08:32 (KLZ_WT17)	18:57	47	09:41 (KLZ_WT05)	17:00	115	16:23 (KLZ_WT12)	16:38	143	14:50 (KLZ_WT20)
15	05:46			06:30		06:57 (SAM_WT10)	07:19		08:09 (KLZ_WT17)	08:07		08:41 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56			21:09	1	06:58 (SAM_WT10)	20:02	25	08:34 (KLZ_WT17)	18:55	49	09:41 (KLZ_WT05)	16:59	117	16:22 (KLZ_WT12)	16:38	142	14:51 (KLZ_WT20)
16	05:48			06:32			07:21		08:07 (KLZ_WT17)	08:09		08:39 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55			21:07			20:00	28	08:35 (KLZ_WT17)	18:52	50	09:39 (KLZ_WT05)	16:57	120	16:21 (KLZ_WT12)	16:38	142	14:52 (KLZ_WT20)
17	05:49			06:33			07:22		08:05 (KLZ_WT17)	08:11		08:39 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54			21:05			19:57	31	08:36 (KLZ_WT17)	18:50	48	09:38 (KLZ_WT05)	16:56	122	16:20 (KLZ_WT12)	16:38	139	14:52 (KLZ_WT20)
18	05:50			06:35			07:24		08:04 (KLZ_WT17)	08:12		08:39 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53			21:03			19:55	32	08:36 (KLZ_WT17)	18:48	45	09:37 (KLZ_WT05)	16:55	121	16:19 (KLZ_WT12)	16:39	141	14:52 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37			07:25		08:03 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	3	06:23 (EAM_WT01)	21:01			19:53	34	08:37 (KLZ_WT17)	18:46	42	09:36 (KLZ_WT05)	16:53	119	16:16 (KLZ_WT12)	16:39	141	14:53 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38			07:27		08:03 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	3	06:24 (EAM_WT01)	20:59			19:50	35	08:38 (KLZ_WT17)	18:44	36	09:34 (KLZ_WT05)	16:52	119	16:15 (KLZ_WT13)	16:39	141	14:54 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40			07:28		08:01 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	3	06:26 (EAM_WT01)	20:57			19:48	36	08:37 (KLZ_WT17)	18:42	29	09:31 (KLZ_WT05)	16:51	133	16:16 (KLZ_WT13)	16:40	141	14:54 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41			07:30		08:01 (KLZ_WT17)	08:19		08:45 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	2	06:26 (EAM_WT01)	20:55			19:46	37	08:38 (KLZ_WT17)	18:40	32	17:16 (KLZ_WT12)	16:50	137	16:16 (KLZ_WT13)	16:40	141	14:55 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43			07:32		08:00 (KLZ_WT17)	08:21		08:47 (SAM_WT06)	08:14		09:15 (KLZ_WT23)	08:48		09:19 (SAM_WT05)
	21:47	1	06:26 (EAM_WT01)	20:53			19:44	37	08:37 (KLZ_WT17)	18:38	24	17:19 (KLZ_WT12)	16:49	141	16:16 (KLZ_WT13)	16:41	141	14:55 (KLZ_WT20)
24	05:58			06:44			07:33		08:00 (KLZ_WT17)	08:23		16:57 (KLZ_WT12)	08:16		09:16 (KLZ_WT23)	08:48		09:19 (SAM_WT05)
	21:45			20:50			19:41	37	08:37 (KLZ_WT17)	18:36	24	17:21 (KLZ_WT12)	16:48	144	16:16 (KLZ_WT13)	16:41	141	14:55 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46			07:35		07:59 (KLZ_WT17)	07:24		15:56 (KLZ_WT12)	08:17		09:16 (KLZ_WT23)	08:48		09:20 (SAM_WT05)
	21:44	1	06:29 (EAM_WT02)	20:48			19:39	37	08:36 (KLZ_WT17)	17:34	26	16:22 (KLZ_WT12)	16:47	146	16:15 (KLZ_WT13)	16:42	141	14:56 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48			07:36		08:01 (KLZ_WT17)	07:26		15:54 (KLZ_WT12)	08:19		09:16 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:43	1	06:30 (EAM_WT02)	20:46			19:37	35	08:36 (KLZ_WT17)	17:32	30	16:24 (KLZ_WT12)	16:46	147	16:14 (KLZ_WT13)	16:43	140	14:56 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:52 (KLZ_WT12)	08:20		09:17 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:41			20:44			19:34	32	08:35 (KLZ_WT17)	17:30	32	16:24 (KLZ_WT12)	16:45	148	16:13 (KLZ_WT13)	16:43	140	14:56 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:51 (KLZ_WT12)	08:22		09:18 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:40			20:42			19:32	39	18:41 (EVE_WT01)	17:28	39	16:40 (EVE_WT02)	16:44	148	16:12 (KLZ_WT13)	16:44	143	14:57 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		15:51 (KLZ_WT12)	08:23		09:17 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:38			20:40			19:30	50	18:44 (EVE_WT01)	17:26	45	16:43 (EVE_WT02)	16:43	149	16:11 (KLZ_WT13)	16:45	141	14:57 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		15:50 (KLZ_WT12)	08:25		09:18 (KLZ_WT23)	08:50		09:20 (SAM_WT05)
	21:37			20:38			19:28	59	18:45 (EVE_WT01)	17:25	51	16:45 (EVE_WT02)	16:43	149	16:10 (KLZ_WT13)	16:46	144	14:58 (KLZ_WT20)
31	06:08			06:55						07:35		08:06 (SAM_WT11)				08:50		09:20 (SAM_WT05)
	21:35			20:35						17:23	59	16:46 (EVE_WT02)				16:47	143	14:58 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		200			32			707			1448			3263			4475	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,67			0,59			0,61			0,67			0,65	
Total reduction		0,31			0,31			0,25			0,22			0,17			0,14	
Total, real		62			10			177			312			569			643	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (SAM_WT06)	08:24		17:01 (KLZ_WT12)	07:32		08:26 (KLZ_WT02)	07:23			06:20		06:52 (SAM_WT10)	05:36		06:07 (EAM_WT01)
	16:48	122	16:14 (KLZ_WT20)	17:35	4	17:05 (KLZ_WT12)	18:25	18	08:44 (KLZ_WT02)	20:17			21:06	12	07:04 (SAM_WT10)	21:51	10	06:17 (EAM_WT01)
2	08:50		09:33 (SAM_WT06)	08:23		17:00 (KLZ_WT12)	07:30		08:28 (KLZ_WT02)	07:21			06:18		06:54 (SAM_WT10)	05:35		06:07 (EAM_WT01)
	16:49	121	16:15 (KLZ_WT20)	17:36	7	17:07 (KLZ_WT12)	18:26	14	08:42 (KLZ_WT02)	20:19			21:08	7	07:01 (SAM_WT10)	21:52	10	06:17 (EAM_WT01)
3	08:49		09:33 (SAM_WT06)	08:21		17:00 (KLZ_WT12)	07:28		08:30 (KLZ_WT02)	07:19			06:16			05:35		06:09 (EAM_WT01)
	16:50	120	16:17 (KLZ_WT20)	17:38	9	17:09 (KLZ_WT12)	18:28	10	08:40 (KLZ_WT02)	20:20			21:09			21:53	8	06:17 (EAM_WT01)
4	08:49		09:33 (SAM_WT06)	08:19		17:01 (KLZ_WT12)	07:26			07:16		07:39 (SAM_WT01)	06:15			05:34		06:09 (EAM_WT01)
	16:51	119	16:17 (KLZ_WT20)	17:40	10	17:11 (EVE_WT02)	18:30			20:22	2	07:41 (SAM_WT01)	21:11			21:54	7	06:16 (EAM_WT01)
5	08:49		09:34 (SAM_WT06)	08:18		17:01 (KLZ_WT12)	07:24			07:14		07:37 (SAM_WT01)	06:13			05:33		06:11 (EAM_WT01)
	16:52	117	16:19 (KLZ_WT20)	17:42	12	17:13 (EVE_WT02)	18:32			20:24	2	07:39 (SAM_WT01)	21:13			21:55	4	06:15 (EAM_WT01)
6	08:49		09:34 (SAM_WT06)	08:16		17:01 (KLZ_WT12)	07:21			07:12			06:11			05:33		
	16:54	114	16:20 (KLZ_WT20)	17:44	14	17:15 (EVE_WT02)	18:33			20:25			21:14			21:56		
7	08:48		09:35 (SAM_WT06)	08:15		17:02 (KLZ_WT12)	07:19		07:44 (KLZ_WT01)	07:10			06:09			05:32		
	16:55	110	16:22 (KLZ_WT20)	17:45	14	17:16 (EVE_WT02)	18:35	9	07:53 (KLZ_WT01)	20:27			21:16			21:56		
8	08:48		09:35 (SAM_WT06)	08:13		17:04 (KLZ_WT12)	07:17		07:42 (KLZ_WT01)	07:08			06:07			05:32		
	16:56	104	16:22 (KLZ_WT20)	17:47	15	17:19 (EVE_WT02)	18:37	13	07:55 (KLZ_WT01)	20:29			21:17			21:57		
9	08:48		09:37 (SAM_WT06)	08:11		17:05 (KLZ_WT12)	07:15		07:41 (KLZ_WT01)	07:05			06:06			05:31		
	16:57	104	16:25 (KLZ_WT20)	17:49	14	17:20 (EVE_WT02)	18:38	15	07:56 (KLZ_WT01)	20:30			21:19			21:58		
10	08:47		09:37 (SAM_WT06)	08:09			07:13		07:39 (KLZ_WT01)	07:03			06:04			05:31		
	16:59	103	16:26 (KLZ_WT20)	17:51			18:40	17	07:56 (KLZ_WT01)	20:32			21:21			21:59		
11	08:46		09:37 (SAM_WT06)	08:08			07:10		07:39 (KLZ_WT01)	07:01			06:03			05:30		
	17:00	102	16:27 (KLZ_WT20)	17:53			18:42	17	07:56 (KLZ_WT01)	20:33			21:22			22:00		
12	08:46		09:39 (SAM_WT06)	08:06			07:08		07:39 (KLZ_WT01)	06:59			06:01		06:26 (EAM_WT03)	05:30		
	17:02	98	16:29 (KLZ_WT20)	17:54			18:44	17	07:56 (KLZ_WT01)	20:35			21:24	2	06:28 (EAM_WT03)	22:00		
13	08:45		09:39 (SAM_WT06)	08:04			07:06		07:38 (KLZ_WT01)	06:57			05:59		06:25 (EAM_WT03)	05:30		
	17:03	95	16:31 (KLZ_WT20)	17:56			18:45	17	07:55 (KLZ_WT01)	20:37			21:25	3	06:28 (EAM_WT03)	22:01		
14	08:44		09:40 (SAM_WT06)	08:02		08:26 (SAM_WT08)	07:04		07:38 (KLZ_WT01)	06:55			05:58		06:23 (EAM_WT03)	05:30		
	17:05	88	16:32 (KLZ_WT20)	17:58	1	08:27 (SAM_WT08)	18:47	16	07:54 (KLZ_WT01)	20:38			21:27	4	06:27 (EAM_WT03)	22:02		
15	08:44		09:41 (SAM_WT06)	08:00		08:24 (SAM_WT08)	07:02		07:39 (KLZ_WT01)	06:52		07:15 (SAM_WT09)	05:56		06:22 (EAM_WT02)	05:30		
	17:06	86	16:34 (KLZ_WT20)	18:00	3	08:27 (SAM_WT08)	18:49	14	07:53 (KLZ_WT01)	20:40	1	07:16 (SAM_WT09)	21:28	5	06:27 (EAM_WT03)	22:02		
16	08:43		09:42 (SAM_WT06)	07:58		08:22 (SAM_WT08)	06:59		07:22 (SWB_WT01_RP)	06:50		07:13 (SAM_WT09)	05:55		06:21 (EAM_WT02)	05:29		
	17:08	83	16:35 (KLZ_WT20)	18:02	11	08:40 (KLZ_WT02)	18:50	11	07:51 (KLZ_WT01)	20:42	2	07:15 (SAM_WT09)	21:30	5	06:26 (EAM_WT03)	22:03		
17	08:42		09:44 (SAM_WT06)	07:56		08:20 (SAM_WT08)	06:57		07:19 (SWB_WT01_RP)	06:48		07:11 (SAM_WT09)	05:53		06:19 (EAM_WT02)	05:29		
	17:09	78	16:36 (KLZ_WT20)	18:03	18	08:43 (KLZ_WT02)	18:52	4	07:46 (KLZ_WT01)	20:43	3	07:14 (SAM_WT09)	21:31	4	06:23 (EAM_WT02)	22:03		
18	08:41		09:46 (SAM_WT06)	07:55		08:18 (SAM_WT08)	06:55		07:17 (SAM_WT02)	06:46		07:09 (SAM_WT09)	05:52		06:18 (EAM_WT02)	05:29		
	17:11	71	16:37 (KLZ_WT20)	18:05	23	08:45 (KLZ_WT02)	18:54	1	07:18 (SAM_WT02)	20:45	3	07:12 (SAM_WT09)	21:33	6	06:24 (EAM_WT02)	22:03		
19	08:40		09:50 (SAM_WT06)	07:53		08:17 (SAM_WT08)	06:53		07:15 (SAM_WT02)	06:44		07:07 (SAM_WT10)	05:51		06:17 (EAM_WT02)	05:29		
	17:12	61	16:37 (KLZ_WT20)	18:07	25	08:46 (KLZ_WT02)	18:55	3	07:18 (SAM_WT02)	20:47	1	07:08 (SAM_WT10)	21:34	7	06:24 (EAM_WT02)	22:04		
20	08:39		11:31 (KLZ_WT17)	07:51		08:26 (KLZ_WT02)	06:50		07:13 (SAM_WT02)	06:42		07:05 (SAM_WT10)	05:49		06:16 (EAM_WT01)	05:29		
	17:14	52	16:37 (KLZ_WT20)	18:09	22	17:42 (EVE_WT01)	18:57	4	07:17 (SAM_WT02)	20:48	4	07:09 (SAM_WT10)	21:35	8	06:24 (EAM_WT02)	22:04		
21	08:38		11:33 (KLZ_WT17)	07:49		08:26 (KLZ_WT02)	06:48		07:11 (SAM_WT02)	06:40		07:03 (SAM_WT10)	05:48		06:14 (EAM_WT01)	05:30		
	17:16	46	16:37 (KLZ_WT20)	18:11	26	17:44 (EVE_WT01)	18:59	3	07:14 (SAM_WT02)	20:50	6	07:09 (SAM_WT10)	21:37	8	06:22 (EAM_WT02)	22:04		
22	08:37		11:39 (KLZ_WT17)	07:47		08:25 (KLZ_WT02)	06:46		07:08 (SAM_WT03)	06:38		07:01 (SAM_WT10)	05:47		06:13 (EAM_WT01)	05:30		
	17:17	34	16:37 (KLZ_WT20)	18:12	29	17:46 (EVE_WT01)	19:00	2	07:10 (SAM_WT03)	20:52	9	07:10 (SAM_WT10)	21:38	8	06:21 (EAM_WT02)	22:05		
23	08:36		16:12 (KLZ_WT20)	07:45		08:25 (KLZ_WT02)	06:44		07:06 (SAM_WT03)	06:36		06:59 (SAM_WT10)	05:45		06:12 (EAM_WT01)	05:30		
	17:19	25	16:37 (KLZ_WT20)	18:14	32	17:48 (EVE_WT01)	19:02	4	07:10 (SAM_WT03)	20:53	11	07:10 (SAM_WT10)	21:40	8	06:20 (EAM_WT02)	22:05		
24	08:35		16:13 (KLZ_WT20)	07:43		08:25 (KLZ_WT02)	06:41		07:03 (SAM_WT03)	06:34		06:57 (SAM_WT10)	05:44		06:11 (EAM_WT01)	05:30		
	17:21	24	16:37 (KLZ_WT20)	18:16	33	17:50 (EVE_WT01)	19:04	6	07:09 (SAM_WT03)	20:55	13	07:10 (SAM_WT10)	21:41	7	06:18 (EAM_WT01)	22:05		
25	08:34		16:13 (KLZ_WT20)	07:41		08:25 (KLZ_WT02)	06:39		07:01 (SAM_WT03)	06:32		06:55 (SAM_WT10)	05:43		06:10 (EAM_WT01)	05:31		
	17:22	24	16:51 (KLZ_WT13)	18:18	34	17:52 (EVE_WT01)	19:05	7	07:08 (SAM_WT03)	20:56	14	07:09 (SAM_WT10)	21:42	8	06:18 (EAM_WT01)	22:05		
26	08:32		16:15 (KLZ_WT20)	07:38		08:25 (KLZ_WT02)	06:37		07:01 (SAM_WT03)	06:30		06:53 (SAM_WT10)	05:42		06:09 (EAM_WT01)	05:31		
	17:24	24	16:54 (KLZ_WT13)	18:19	31	17:51 (EVE_WT01)	19:07	5	07:06 (SAM_WT03)	20:58	16	07:09 (SAM_WT10)	21:43	9	06:18 (EAM_WT01)	22:05		
27	08:31		16:16 (KLZ_WT20)	07:36		08:26 (KLZ_WT02)	06:34			06:28		06:51 (SAM_WT10)	05:41		06:08 (EAM_WT01)	05:31		
	17:26	23	16:55 (KLZ_WT13)	18:21	21	08:47 (KLZ_WT02)	19:09			21:00	17	07:08 (SAM_WT10)	21:45	10	06:18 (EAM_WT01)	22:05		
28	08:30		16:18 (KLZ_WT20)	07:34		08:25 (KLZ_WT02)	06:32			06:26		06:49 (SAM_WT10)	05:40		06:07 (EAM_WT01)	05:32		
	17:27	22	16:57 (KLZ_WT13)	18:23	21	08:46 (KLZ_WT02)	19:10			21:01	18	07:07 (SAM_WT10)	21:46	11	06:18 (EAM_WT01)	22:05		
29	08:28		16:20 (KLZ_WT20)				07:30		07:52 (SWB_WT02_RP)	06:24		06:50 (SAM_WT10)	05:39		06:06 (EAM_WT01)	05:32		
	17:29	19	16:59 (KLZ_WT13)				20:12	1	07:53 (SWB_WT02_RP)	21:03	17	07:07 (SAM_WT10)	21:47	12	06:18 (EAM_WT01)	22:05		
30	08:27		16:24 (KLZ_WT20)				07:28		07:50 (SWB_WT02_RP)	06:22		06:51 (SAM_WT10)	05:38		06:06 (EAM_WT01)	05:33		
	17:31	13	17:01 (KLZ_WT13)				20:14	1	07:51 (SWB_WT02_RP)	21:05	15	07:06 (SAM_WT10)	21:48	12	06:18 (EAM_WT01)	22:04		
31	08:25		16:55 (KLZ_WT13)				07:25						05:37		06:07 (EAM_WT01)			
	17:33	8	17:03 (KLZ_WT12)				20:15						21:49	11	06:18 (EAM_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2210			429			229			154			167			39	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,64			0,60			0,57			0,65			0,70			0,70	
Total reduction		0,15			0,18			0,21			0,30			0,31			0,30	
Total, real		342			76			49			46			52			12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (EAM_WT03)	06:57			07:44		08:17 (KLZ_WT01)	07:37		16:38 (KLZ_WT12)	08:26		09:19 (SAM_WT06)
	22:04			21:34	1	06:38 (EAM_WT03)	20:33			19:25	18	08:35 (KLZ_WT01)	17:21	2	16:40 (KLZ_WT12)	16:42	102	16:09 (KLZ_WT20)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT01)	07:38		16:35 (KLZ_WT12)	08:27		09:20 (SAM_WT06)
	22:04			21:32			20:31			19:23	18	08:35 (KLZ_WT01)	17:19	15	16:50 (EVE_WT02)	16:41	103	16:09 (KLZ_WT20)
3	05:35			06:12			07:00			07:48		08:17 (KLZ_WT01)	07:40		16:32 (KLZ_WT12)	08:29		09:20 (SAM_WT06)
	22:04			21:30			20:29			19:21	17	08:34 (KLZ_WT01)	17:17	16	16:48 (EVE_WT02)	16:41	104	16:08 (KLZ_WT20)
4	05:36			06:13			07:02			07:49		08:17 (KLZ_WT01)	07:42		16:31 (KLZ_WT12)	08:30		09:20 (SAM_WT06)
	22:03			21:29			20:27			19:19	16	08:33 (KLZ_WT01)	17:16	15	16:46 (EVE_WT02)	16:40	105	16:08 (KLZ_WT20)
5	05:37			06:15			07:03			07:51		08:18 (KLZ_WT01)	07:43		16:31 (KLZ_WT12)	08:31		09:20 (SAM_WT06)
	22:03			21:27			20:24			19:16	14	08:32 (KLZ_WT01)	17:14	13	16:44 (EVE_WT02)	16:40	109	16:07 (KLZ_WT20)
6	05:37			06:16			07:05			07:53		08:19 (KLZ_WT01)	07:45		16:30 (KLZ_WT12)	08:33		09:20 (SAM_WT06)
	22:02			21:25			20:22			19:14	11	08:30 (KLZ_WT01)	17:12	12	16:42 (EVE_WT02)	16:39	114	16:06 (KLZ_WT20)
7	05:38		06:18 (EAM_WT01)	06:18			07:06		07:32 (SAM_WT01)	07:54		08:21 (KLZ_WT01)	07:47		16:30 (KLZ_WT12)	08:34		09:21 (SAM_WT06)
	22:02	3	06:21 (EAM_WT01)	21:24			20:20	2	07:34 (SAM_WT01)	19:12	7	08:28 (KLZ_WT01)	17:11	11	16:41 (EVE_WT02)	16:39	116	16:06 (KLZ_WT20)
8	05:39		06:17 (EAM_WT01)	06:19			07:08		07:33 (SAM_WT01)	07:56			07:49		16:31 (KLZ_WT12)	08:35		09:21 (SAM_WT06)
	22:01	6	06:23 (EAM_WT01)	21:22			20:18	2	07:35 (SAM_WT01)	19:10			17:09	8	16:39 (KLZ_WT12)	16:39	118	16:05 (KLZ_WT20)
9	05:40		06:16 (EAM_WT01)	06:21			07:10			07:57			07:50		16:31 (KLZ_WT12)	08:36		09:21 (SAM_WT06)
	22:00	8	06:24 (EAM_WT01)	21:20			20:15			19:08			17:07	7	16:38 (KLZ_WT12)	16:38	121	16:05 (KLZ_WT20)
10	05:41		06:16 (EAM_WT01)	06:23			07:11			07:59		09:07 (KLZ_WT02)	07:52		16:32 (KLZ_WT12)	08:37		09:22 (SAM_WT06)
	22:00	9	06:25 (EAM_WT01)	21:18			20:13			19:05	4	09:11 (KLZ_WT02)	17:06	4	16:36 (KLZ_WT12)	16:38	120	16:04 (KLZ_WT20)
11	05:42		06:16 (EAM_WT01)	06:24		07:02 (SAM_WT10)	07:13			08:01		09:03 (KLZ_WT02)	07:54		16:26 (KLZ_WT13)	08:38		09:22 (SAM_WT06)
	21:59	10	06:26 (EAM_WT01)	21:16	9	07:11 (SAM_WT10)	20:11			19:03	12	09:15 (KLZ_WT02)	17:04	9	16:35 (KLZ_WT12)	16:38	122	16:04 (KLZ_WT20)
12	05:43		06:15 (EAM_WT01)	06:26		07:00 (SAM_WT10)	07:14			08:02		09:00 (KLZ_WT02)	07:56		15:54 (KLZ_WT20)	08:39		09:22 (SAM_WT06)
	21:58	11	06:26 (EAM_WT01)	21:14	13	07:13 (SAM_WT10)	20:09			19:01	16	09:16 (KLZ_WT02)	17:03	14	16:32 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
13	05:44		06:15 (EAM_WT01)	06:27		06:58 (SAM_WT10)	07:16		07:41 (SWB_WT02_RP)	08:04		08:59 (KLZ_WT02)	07:57		15:51 (KLZ_WT20)	08:40		09:23 (SAM_WT06)
	21:57	12	06:27 (EAM_WT01)	21:13	16	07:14 (SAM_WT10)	20:06	1	07:42 (SWB_WT02_RP)	18:59	19	09:18 (KLZ_WT02)	17:01	20	16:31 (KLZ_WT13)	16:38	125	16:04 (KLZ_WT20)
14	05:45		06:15 (EAM_WT01)	06:29		06:58 (SAM_WT10)	07:17		07:42 (SWB_WT02_RP)	08:06		08:58 (KLZ_WT02)	07:59		15:50 (KLZ_WT20)	08:41		09:23 (SAM_WT06)
	21:56	12	06:27 (EAM_WT01)	21:11	17	07:15 (SAM_WT10)	20:04	1	07:43 (SWB_WT02_RP)	18:57	21	09:19 (KLZ_WT02)	17:00	22	16:29 (KLZ_WT13)	16:38	123	16:04 (KLZ_WT20)
15	05:46		06:16 (EAM_WT01)	06:30		06:57 (SAM_WT10)	07:19			08:07		08:58 (KLZ_WT02)	08:01		15:49 (KLZ_WT20)	08:42		09:24 (SAM_WT06)
	21:56	11	06:27 (EAM_WT01)	21:09	18	07:15 (SAM_WT10)	20:02			18:55	27	18:22 (EVE_WT01)	16:58	23	16:28 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
16	05:47		06:17 (EAM_WT01)	06:32		06:59 (SAM_WT10)	07:21			08:09		08:56 (KLZ_WT02)	08:02		15:48 (KLZ_WT20)	08:43		09:25 (SAM_WT06)
	21:55	11	06:28 (EAM_WT01)	21:07	17	07:16 (SAM_WT10)	19:59			18:52	32	18:23 (EVE_WT01)	16:57	24	16:27 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
17	05:49		06:18 (EAM_WT01)	06:33		07:00 (SAM_WT10)	07:22		07:50 (SAM_WT03)	08:11		08:56 (KLZ_WT02)	08:04		15:47 (KLZ_WT20)	08:44		09:25 (SAM_WT06)
	21:54	10	06:28 (EAM_WT01)	21:05	16	07:16 (SAM_WT10)	19:57	4	07:54 (SAM_WT03)	18:50	34	18:22 (EVE_WT01)	16:56	24	16:25 (KLZ_WT13)	16:38	126	16:05 (KLZ_WT20)
18	05:50		06:19 (EAM_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:48 (SAM_WT03)	08:12		08:56 (KLZ_WT02)	08:06		15:47 (KLZ_WT20)	08:45		09:25 (SAM_WT06)
	21:52	9	06:28 (EAM_WT01)	21:03	14	07:16 (SAM_WT10)	19:55	7	07:55 (SAM_WT03)	18:48	32	18:20 (EVE_WT01)	16:55	24	16:11 (KLZ_WT20)	16:39	124	16:04 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (SAM_WT03)	08:14		08:56 (KLZ_WT02)	08:07		15:46 (KLZ_WT20)	08:45		09:26 (SAM_WT06)
	21:51	8	06:28 (EAM_WT01)	21:01	12	07:15 (SAM_WT10)	19:53	6	07:56 (SAM_WT03)	18:46	31	18:18 (EVE_WT01)	16:53	25	16:11 (KLZ_WT20)	16:39	126	16:05 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38		07:05 (SAM_WT10)	07:27		07:52 (SAM_WT03)	08:16		08:57 (KLZ_WT02)	08:09		11:14 (KLZ_WT17)	08:46		09:27 (SAM_WT06)
	21:50	8	06:29 (EAM_WT02)	20:59	10	07:15 (SAM_WT10)	19:50	5	07:57 (SAM_WT03)	18:44	28	18:16 (EVE_WT01)	16:52	34	16:12 (KLZ_WT20)	16:39	123	16:05 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40		07:06 (SAM_WT10)	07:28		07:53 (SAM_WT03)	08:18		08:56 (KLZ_WT02)	08:11		11:09 (KLZ_WT17)	08:47		09:27 (SAM_WT06)
	21:49	8	06:31 (EAM_WT02)	20:57	8	07:14 (SAM_WT10)	19:48	3	07:56 (SAM_WT03)	18:42	25	18:14 (EVE_WT01)	16:51	46	16:13 (KLZ_WT20)	16:40	123	16:05 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41		07:08 (SAM_WT10)	07:30			08:19		08:57 (KLZ_WT02)	08:12		11:07 (KLZ_WT17)	08:47		09:28 (SAM_WT06)
	21:48	8	06:32 (EAM_WT02)	20:55	6	07:14 (SAM_WT10)	19:46			18:40	21	18:12 (EVE_WT01)	16:50	52	16:13 (KLZ_WT20)	16:40	123	16:06 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43		07:09 (SAM_WT10)	07:32		07:56 (SAM_WT02)	08:21		08:47 (SAM_WT08)	08:14		09:26 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:47	8	06:33 (EAM_WT02)	20:53	3	07:12 (SAM_WT10)	19:44	4	08:00 (SAM_WT02)	18:38	26	09:16 (KLZ_WT02)	16:49	60	16:13 (KLZ_WT20)	16:41	123	16:06 (KLZ_WT20)
24	05:58		06:26 (EAM_WT02)	06:44			07:33		07:58 (SAM_WT02)	08:23		08:49 (SAM_WT08)	08:16		09:23 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:45	7	06:33 (EAM_WT02)	20:50			19:41	3	08:01 (SAM_WT02)	18:36	22	09:15 (KLZ_WT02)	16:48	71	16:14 (KLZ_WT20)	16:41	124	16:07 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46		07:12 (SAM_WT09)	07:35		07:59 (SAM_WT02)	07:24		07:51 (SAM_WT08)	08:17		09:22 (SAM_WT06)	08:48		09:29 (SAM_WT06)
	21:44	6	06:34 (EAM_WT02)	20:48	4	07:16 (SAM_WT09)	19:39	2	08:01 (SAM_WT02)	17:34	17	08:13 (KLZ_WT02)	16:47	78	16:14 (KLZ_WT20)	16:42	124	16:08 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48		07:14 (SAM_WT09)	07:36		08:01 (SWB_WT01_RP)	07:26		07:53 (SAM_WT08)	08:19		09:21 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:43	5	06:34 (EAM_WT02)	20:46	3	07:17 (SAM_WT09)	19:37	2	08:03 (SWB_WT01_RP)	17:32	6	08:09 (KLZ_WT02)	16:46	81	16:13 (KLZ_WT20)	16:43	124	16:08 (KLZ_WT20)
27	06:02		06:30 (EAM_WT02)	06:49		07:15 (SAM_WT09)	07:38		08:03 (SWB_WT01_RP)	07:28		07:54 (SAM_WT08)	08:20		09:20 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:41	5	06:35 (EAM_WT03)	20:44	2	07:17 (SAM_WT09)	19:34	10	08:32 (KLZ_WT01)	17:30	3	07:57 (SAM_WT08)	16:45	85	16:13 (KLZ_WT20)	16:43	125	16:09 (KLZ_WT20)
28	06:03		06:32 (EAM_WT02)	06:51		07:17 (SAM_WT09)	07:40		08:21 (KLZ_WT01)	07:30			08:22		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:40	5	06:37 (EAM_WT03)	20:42	1	07:18 (SAM_WT09)	19:32	12	08:33 (KLZ_WT01)	17:28			16:44	88	16:12 (KLZ_WT20)	16:44	124	16:10 (KLZ_WT20)
29	06:05		06:33 (EAM_WT02)	06:52			07:41		08:20 (KLZ_WT01)	07:31			08:23		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:38	4	06:37 (EAM_WT03)	20:40			19:30	14	08:34 (KLZ_WT01)	17:26			16:43	94	16:11 (KLZ_WT20)	16:45	125	16:10 (KLZ_WT20)
30	06:06		06:34 (EAM_WT03)	06:54			07:43		08:18 (KLZ_WT01)	07:33			08:25		09:20 (SAM_WT06)	08:50		09:31 (SAM_WT06)
	21:37	4	06:38 (EAM_WT03)	20:38			19:28	16	08:34 (KLZ_WT01)	17:25			16:43	98	16:10 (KLZ_WT20)	16:46	124	16:11 (KLZ_WT20)
31	06:07		06:36 (EAM_WT03)	06:55						07:35						08:50		09:31 (SAM_WT06)
	21:35	2	06:38 (EAM_WT03)	20:35						17:23						16:47	124	16:12 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		190			170			94			477			1075			3716	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,66			0,59			0,57			0,66			0,63	
Total reduction		0,31			0,30			0,25			0,20			0,17			0,14	
Total, real		58			51			23			96			185			515	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:08 (SAM_WT07)	08:24			07:32		17:40 (KLZ_WT20)	07:23		07:45 (SWB_WT01_RP)	06:20			05:36		06:24 (KLZ_WT01)
	16:48	61	13:14 (KLZ_WT23)	17:35			18:25	19	17:59 (KLZ_WT13)	20:17	31	19:30 (KLZ_WT05)	21:06			21:51	79	19:56 (KLZ_WT04)
2	08:50		10:09 (SAM_WT07)	08:22			07:30		17:39 (KLZ_WT20)	07:21		07:43 (SWB_WT01_RP)	06:18			05:36		06:25 (KLZ_WT01)
	16:49	60	13:15 (KLZ_WT23)	17:36			18:26	22	18:01 (KLZ_WT13)	20:19	32	19:31 (KLZ_WT05)	21:08			21:52	78	19:57 (KLZ_WT04)
3	08:49		10:10 (SAM_WT07)	08:21			07:28		17:39 (KLZ_WT20)	07:19		19:01 (KLZ_WT05)	06:16			05:35		06:03 (SAM_WT10)
	16:50	58	13:15 (KLZ_WT23)	17:38			18:28	24	18:03 (EVE_WT02)	20:20	30	19:31 (KLZ_WT05)	21:09			21:53	79	19:57 (KLZ_WT04)
4	08:49		10:10 (SAM_WT07)	08:19		08:57 (SAM_WT06)	07:26		17:38 (KLZ_WT20)	07:16		19:01 (KLZ_WT05)	06:15		06:39 (SAM_WT09)	05:34		06:02 (SAM_WT10)
	16:51	56	13:14 (KLZ_WT23)	17:40	7	09:04 (SAM_WT06)	18:30	27	18:05 (EVE_WT02)	20:22	30	19:31 (KLZ_WT05)	21:11	2	06:41 (SAM_WT09)	21:54	81	19:58 (KLZ_WT04)
5	08:49		10:12 (SAM_WT07)	08:18		08:53 (SAM_WT06)	07:24		17:37 (KLZ_WT20)	07:14		19:01 (KLZ_WT05)	06:13		06:37 (SAM_WT09)	05:33		06:02 (SAM_WT10)
	16:52	55	13:15 (KLZ_WT23)	17:42	15	09:08 (SAM_WT06)	18:32	29	18:06 (EVE_WT02)	20:24	30	19:31 (KLZ_WT05)	21:13	3	06:40 (SAM_WT09)	21:55	81	19:59 (KLZ_WT04)
6	08:49		10:12 (SAM_WT07)	08:16		08:51 (SAM_WT06)	07:21		07:44 (SAM_WT08)	07:12		07:34 (SAM_WT02)	06:11		06:35 (SAM_WT09)	05:33		06:01 (SAM_WT10)
	16:54	52	13:14 (KLZ_WT23)	17:44	19	09:10 (SAM_WT06)	18:33	33	18:07 (KLZ_WT20)	20:25	31	19:30 (KLZ_WT05)	21:14	4	06:39 (SAM_WT09)	21:56	81	19:59 (KLZ_WT04)
7	08:48		09:18 (SAM_WT04)	08:15		08:49 (SAM_WT06)	07:19		07:42 (SAM_WT08)	07:10		07:32 (SAM_WT02)	06:09		06:34 (SAM_WT09)	05:32		06:01 (SAM_WT10)
	16:55	49	13:14 (KLZ_WT23)	17:45	22	09:11 (SAM_WT06)	18:35	35	18:07 (KLZ_WT20)	20:27	32	19:29 (KLZ_WT05)	21:16	4	06:38 (SAM_WT09)	21:56	82	20:00 (KLZ_WT04)
8	08:48		09:17 (SAM_WT04)	08:13		08:48 (SAM_WT06)	07:17		07:40 (SAM_WT08)	07:08		07:30 (SAM_WT02)	06:08			05:32		06:00 (SAM_WT10)
	16:56	48	13:14 (KLZ_WT23)	17:47	25	09:13 (SAM_WT06)	18:37	38	18:08 (KLZ_WT06)	20:29	31	19:28 (KLZ_WT05)	21:17			21:57	86	20:00 (KLZ_WT04)
9	08:47		09:17 (SAM_WT04)	08:11		08:47 (SAM_WT06)	07:15		07:37 (SAM_WT08)	07:05		07:28 (SAM_WT02)	06:06			05:31		06:00 (SAM_WT10)
	16:57	43	13:14 (KLZ_WT23)	17:49	27	09:14 (SAM_WT06)	18:38	40	18:08 (KLZ_WT06)	20:30	32	19:28 (KLZ_WT05)	21:19			21:58	89	20:00 (KLZ_WT04)
10	08:47		09:16 (SAM_WT04)	08:09		08:46 (SAM_WT06)	07:13		07:35 (SAM_WT08)	07:03		19:03 (KLZ_WT05)	06:04			05:31		06:00 (SAM_WT10)
	16:59	35	13:13 (KLZ_WT23)	17:51	29	09:15 (SAM_WT06)	18:40	42	18:09 (KLZ_WT06)	20:32	23	19:26 (KLZ_WT05)	21:21			21:59	89	20:01 (KLZ_WT04)
11	08:46		09:15 (SAM_WT04)	08:08		08:45 (SAM_WT06)	07:10		07:34 (SAM_WT08)	07:01		19:04 (KLZ_WT05)	06:03			05:30		05:59 (SAM_WT10)
	17:00	34	13:12 (KLZ_WT23)	17:53	31	09:16 (SAM_WT06)	18:42	44	18:17 (KLZ_WT12)	20:33	20	19:24 (KLZ_WT05)	21:22			22:00	92	20:01 (KLZ_WT04)
12	08:46		09:15 (SAM_WT04)	08:06		08:45 (SAM_WT06)	07:08		07:36 (SAM_WT08)	06:59		19:06 (KLZ_WT05)	06:01			05:30		05:59 (SAM_WT10)
	17:02	34	13:12 (KLZ_WT23)	17:54	31	09:16 (SAM_WT06)	18:44	42	18:19 (KLZ_WT12)	20:35	16	19:22 (KLZ_WT05)	21:24			22:00	90	20:01 (KLZ_WT04)
13	08:45		09:14 (SAM_WT04)	08:04		08:44 (SAM_WT06)	07:06		17:40 (KLZ_WT20)	06:57		07:19 (SAM_WT03)	05:59			05:30		05:59 (SAM_WT10)
	17:03	32	13:11 (KLZ_WT23)	17:56	33	09:17 (SAM_WT06)	18:45	37	18:20 (KLZ_WT12)	20:37	14	19:20 (KLZ_WT05)	21:25			22:01	91	20:02 (KLZ_WT04)
14	08:44		09:13 (SAM_WT04)	08:02		08:44 (SAM_WT06)	07:04		17:42 (KLZ_WT20)	06:55		07:17 (SAM_WT03)	05:58		06:29 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:05	30	13:09 (KLZ_WT23)	17:58	33	09:17 (SAM_WT06)	18:47	37	18:22 (KLZ_WT12)	20:38	5	07:22 (SAM_WT03)	21:27	19	19:30 (KLZ_WT04)	22:02	91	20:02 (KLZ_WT04)
15	08:44		09:12 (SAM_WT04)	08:00		08:43 (SAM_WT06)	07:02		17:45 (KLZ_WT20)	06:52		07:15 (SAM_WT03)	05:56		06:27 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:06	27	13:07 (KLZ_WT23)	18:00	34	09:17 (SAM_WT06)	18:49	35	18:24 (KLZ_WT12)	20:40	7	07:22 (SAM_WT03)	21:28	33	19:35 (KLZ_WT04)	22:02	94	20:03 (KLZ_WT04)
16	08:43		09:11 (SAM_WT04)	07:58		08:43 (SAM_WT06)	06:59		17:53 (KLZ_WT06)	06:50		07:13 (SAM_WT03)	05:55		06:26 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:08	15	09:26 (SAM_WT11)	18:02	34	09:17 (SAM_WT06)	18:50	28	18:26 (KLZ_WT12)	20:42	8	07:21 (SAM_WT03)	21:30	40	19:38 (KLZ_WT04)	22:03	95	20:03 (KLZ_WT04)
17	08:42		09:10 (SAM_WT04)	07:56		08:43 (SAM_WT06)	06:57		17:55 (KLZ_WT06)	06:48		07:12 (SAM_WT03)	05:53		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:09	17	09:27 (SAM_WT11)	18:03	34	09:17 (SAM_WT06)	18:52	21	18:25 (KLZ_WT12)	20:43	8	07:20 (SAM_WT03)	21:31	47	19:39 (KLZ_WT04)	22:03	94	20:03 (KLZ_WT04)
18	08:41		09:09 (SAM_WT04)	07:55		08:43 (SAM_WT06)	06:55		18:13 (KLZ_WT12)	06:46		07:13 (SAM_WT03)	05:52		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:11	18	09:27 (SAM_WT11)	18:05	34	09:17 (SAM_WT06)	18:54	11	18:24 (KLZ_WT12)	20:45	5	07:18 (SAM_WT03)	21:33	52	19:41 (KLZ_WT04)	22:03	95	20:04 (KLZ_WT04)
19	08:40		09:08 (SAM_WT11)	07:53		08:44 (SAM_WT06)	06:53		18:15 (KLZ_WT12)	06:44			05:51		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:12	19	09:27 (SAM_WT11)	18:07	32	09:16 (SAM_WT06)	18:55	9	18:31 (EVE_WT01)	20:47			21:34	56	19:43 (KLZ_WT04)	22:04	96	20:04 (KLZ_WT04)
20	08:39		09:07 (SAM_WT11)	07:51		08:44 (SAM_WT06)	06:50		18:29 (EVE_WT01)	06:42			05:49		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:14	21	09:28 (SAM_WT11)	18:09	32	09:16 (SAM_WT06)	18:57	3	18:32 (EVE_WT01)	20:48			21:35	60	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
21	08:38		09:05 (SAM_WT11)	07:49		08:45 (SAM_WT06)	06:48		18:27 (EVE_WT01)	06:40			05:48		06:22 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:16	22	09:27 (SAM_WT11)	18:11	30	09:15 (SAM_WT06)	18:59	6	18:33 (EVE_WT01)	20:50			21:37	63	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
22	08:37		09:05 (SAM_WT11)	07:47		08:45 (SAM_WT06)	06:46		18:27 (EVE_WT01)	06:38		07:01 (SAM_WT01)	05:47		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:17	23	09:28 (SAM_WT11)	18:12	29	09:14 (SAM_WT06)	19:00	8	18:35 (EVE_WT01)	20:52	2	07:03 (SAM_WT01)	21:38	66	19:47 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
23	08:36		09:06 (SAM_WT11)	07:45		08:46 (SAM_WT06)	06:43		18:28 (EVE_WT01)	06:36		06:59 (SAM_WT01)	05:45		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:19	22	09:28 (SAM_WT11)	18:14	27	09:13 (SAM_WT06)	19:02	9	18:37 (EVE_WT01)	20:53	2	07:01 (SAM_WT01)	21:40	68	19:48 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
24	08:35		09:06 (SAM_WT11)	07:43		08:48 (SAM_WT06)	06:41		18:28 (EVE_WT01)	06:34		06:57 (SAM_WT01)	05:44		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:21	21	09:27 (SAM_WT11)	18:16	23	09:11 (SAM_WT06)	19:04	10	18:38 (EVE_WT01)	20:55	2	06:59 (SAM_WT01)	21:41	71	19:49 (KLZ_WT04)	22:05	96	20:05 (KLZ_WT04)
25	08:34		09:07 (SAM_WT11)	07:40		08:49 (SAM_WT06)	06:39		18:30 (EVE_WT01)	06:32			05:43		06:22 (KLZ_WT01)	05:31		06:00 (SAM_WT10)
	17:22	20	09:27 (SAM_WT11)	18:18	25	17:52 (KLZ_WT20)	19:05	6	18:36 (EVE_WT01)	20:56			21:42	72	19:50 (KLZ_WT04)	22:05	95	20:05 (KLZ_WT04)
26	08:32		09:09 (SAM_WT11)	07:38		08:51 (SAM_WT06)	06:37		18:15 (KLZ_WT05)	06:30			05:42		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:24	18	09:27 (SAM_WT11)	18:19	24	17:54 (KLZ_WT13)	19:07	7	18:22 (KLZ_WT05)	20:58			21:43	74	19:51 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
27	08:31		09:09 (SAM_WT11)	07:36		08:55 (SAM_WT06)	06:34		18:11 (KLZ_WT05)	06:28			05:41		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:26	16	09:25 (SAM_WT11)	18:21	21	17:56 (KLZ_WT13)	19:09	14	18:25 (KLZ_WT05)	21:00			21:45	75	19:52 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
28	08:30		09:11 (SAM_WT11)	07:34		17:41 (KLZ_WT20)	06:32		18:08 (KLZ_WT05)	06:26			05:40		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:27	14	09:25 (SAM_WT11)	18:23	16	17:57 (KLZ_WT13)	19:10	18	18:26 (KLZ_WT05)	21:01			21:46	75	19:52 (KLZ_WT04)	22:05	93	20:06 (KLZ_WT04)
29	08:28		09:13 (SAM_WT11)				07:30		19:06 (KLZ_WT05)	06:24			05:39		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:29	9	09:22 (SAM_WT11)				20:12	22	19:28 (KLZ_WT05)	21:03			21:47	77	19:53 (KLZ_WT04)	22:05	91	20:05 (KLZ_WT04)
30	08:27						07:28		19:05 (KLZ_WT05)	06:22			05:38		06:23 (KLZ_WT01)	05:33		06:03 (SAM_WT10)
	17:31						20:14	25	19:30 (KLZ_WT05)	21:05			21:48	78	19:55 (KLZ_WT04)	22:04	90	20:06 (KLZ_WT04)
31	08:25						07:25		07:48 (SWB_WT01_RP)				05:37		06:24 (KLZ_WT01)			
	17:33						20:15	29	19:31 (KLZ_WT05)				21:49	77	19:55 (KLZ_WT04)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		929			667			730			391			1116			2704	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,61			0,56			0,64			0,63			0,59			0,59	
Total reduction		0,15			0,16			0,24			0,28			0,26			0,25	
Total, real		137			109			173			111			294			689	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT10)	06:09			06:57		19:04 (KLZ_WT05)	07:44		18:19 (KLZ_WT20)	07:36		08:16 (SAM_WT06)	08:26		08:57 (SAM_WT04)
	22:04	92	20:06 (KLZ_WT04)	21:34			20:33	20	19:24 (KLZ_WT05)	19:25	35	18:58 (KLZ_WT12)	17:21	28	08:44 (SAM_WT06)	16:42	34	12:54 (KLZ_WT23)
2	05:34		06:04 (SAM_WT10)	06:10			06:59		19:01 (KLZ_WT05)	07:46		08:14 (SAM_WT08)	07:38		08:17 (SAM_WT06)	08:27		08:59 (SAM_WT04)
	22:04	90	20:05 (KLZ_WT04)	21:32			20:31	23	19:24 (KLZ_WT05)	19:23	43	18:56 (KLZ_WT12)	17:19	27	08:44 (SAM_WT06)	16:41	35	12:56 (KLZ_WT23)
3	05:35		06:05 (SAM_WT10)	06:12			07:00		07:26 (SAM_WT02)	07:48		08:12 (SAM_WT08)	07:40		08:17 (SAM_WT06)	08:29		09:00 (SAM_WT04)
	22:04	90	20:06 (KLZ_WT04)	21:30			20:29	32	19:26 (KLZ_WT05)	19:21	43	18:54 (KLZ_WT12)	17:17	25	08:42 (SAM_WT06)	16:41	43	12:57 (KLZ_WT23)
4	05:36		06:06 (SAM_WT10)	06:13			07:02		07:27 (SAM_WT02)	07:49		08:14 (SAM_WT08)	07:42		08:19 (SAM_WT06)	08:30		09:02 (SAM_WT04)
	22:03	88	20:06 (KLZ_WT04)	21:29			20:27	31	19:25 (KLZ_WT05)	19:19	41	18:46 (KLZ_WT06)	17:16	22	08:41 (SAM_WT06)	16:40	47	12:59 (KLZ_WT23)
5	05:37		06:06 (SAM_WT10)	06:15			07:03		07:29 (SAM_WT02)	07:51		08:16 (SAM_WT08)	07:43		08:21 (SAM_WT06)	08:31		09:03 (SAM_WT04)
	22:03	83	20:05 (KLZ_WT04)	21:27			20:24	32	19:26 (KLZ_WT05)	19:16	39	18:45 (KLZ_WT06)	17:14	18	08:39 (SAM_WT06)	16:40	49	12:59 (KLZ_WT23)
6	05:37		06:07 (SAM_WT10)	06:16		06:44 (SAM_WT09)	07:05		07:30 (SAM_WT02)	07:52		08:17 (SAM_WT08)	07:45		08:23 (SAM_WT06)	08:33		09:59 (SAM_WT07)
	22:02	82	20:05 (KLZ_WT04)	21:25	4	06:48 (SAM_WT09)	20:22	31	19:26 (KLZ_WT05)	19:14	36	18:43 (KLZ_WT06)	17:12	14	08:37 (SAM_WT06)	16:39	51	13:00 (KLZ_WT23)
7	05:38		06:08 (SAM_WT10)	06:18		06:46 (SAM_WT09)	07:06		18:57 (KLZ_WT05)	07:54		08:19 (SAM_WT08)	07:47		08:27 (SAM_WT06)	08:34		09:59 (SAM_WT07)
	22:02	82	20:05 (KLZ_WT04)	21:24	3	06:49 (SAM_WT09)	20:20	29	19:26 (KLZ_WT05)	19:12	34	18:43 (KLZ_WT20)	17:11	6	08:33 (SAM_WT06)	16:39	55	13:02 (KLZ_WT23)
8	05:39		06:09 (SAM_WT10)	06:19		06:47 (SAM_WT09)	07:08		18:55 (KLZ_WT05)	07:56		08:21 (SAM_WT08)	07:49			08:35		09:59 (SAM_WT07)
	22:01	81	20:05 (KLZ_WT04)	21:22	3	06:50 (SAM_WT09)	20:18	30	19:25 (KLZ_WT05)	19:10	32	18:43 (KLZ_WT20)	17:09			16:39	55	13:02 (KLZ_WT23)
9	05:40		06:10 (SAM_WT10)	06:21		06:48 (SAM_WT09)	07:10		18:56 (KLZ_WT05)	07:57		18:12 (KLZ_WT20)	07:50			08:36		09:58 (SAM_WT07)
	22:00	80	20:05 (KLZ_WT04)	21:20	1	06:49 (SAM_WT09)	20:15	29	19:25 (KLZ_WT05)	19:08	28	18:40 (EVE_WT02)	17:07			16:38	58	13:03 (KLZ_WT23)
10	05:41		06:11 (SAM_WT10)	06:23			07:11		07:36 (SWB_WT01_RP)	07:59		18:13 (KLZ_WT20)	07:52			08:37		09:58 (SAM_WT07)
	22:00	79	20:05 (KLZ_WT04)	21:18			20:13	32	19:24 (KLZ_WT05)	19:05	25	18:38 (EVE_WT02)	17:06			16:38	60	13:04 (KLZ_WT23)
11	05:42		06:32 (KLZ_WT01)	06:24			07:13		07:38 (SWB_WT01_RP)	08:01		18:13 (KLZ_WT20)	07:54			08:38		09:58 (SAM_WT07)
	21:59	78	20:04 (KLZ_WT04)	21:16			20:11	31	19:23 (KLZ_WT05)	19:03	23	18:36 (KLZ_WT13)	17:04			16:38	61	13:04 (KLZ_WT23)
12	05:43		06:32 (KLZ_WT01)	06:26			07:14		07:39 (SWB_WT01_RP)	08:02		18:13 (KLZ_WT20)	07:56			08:39		09:58 (SAM_WT07)
	21:58	78	20:04 (KLZ_WT04)	21:14			20:09	29	19:22 (KLZ_WT05)	19:01	20	18:33 (KLZ_WT13)	17:03			16:38	62	13:05 (KLZ_WT23)
13	05:44		06:32 (KLZ_WT01)	06:27			07:16		07:41 (SWB_WT01_RP)	08:04		18:14 (KLZ_WT20)	07:57		08:45 (SAM_WT11)	08:40		09:58 (SAM_WT07)
	21:57	78	20:04 (KLZ_WT04)	21:12			20:06	26	19:21 (KLZ_WT05)	18:59	17	18:31 (KLZ_WT13)	17:01	9	08:54 (SAM_WT11)	16:38	64	13:06 (KLZ_WT23)
14	05:45		06:32 (KLZ_WT01)	06:29			07:17		18:56 (KLZ_WT05)	08:06		18:15 (KLZ_WT20)	07:59		08:43 (SAM_WT11)	08:41		09:59 (SAM_WT07)
	21:56	77	20:03 (KLZ_WT04)	21:11			20:04	23	19:19 (KLZ_WT05)	18:57	14	18:29 (KLZ_WT13)	17:00	14	08:57 (SAM_WT11)	16:38	64	13:06 (KLZ_WT23)
15	05:46		06:32 (KLZ_WT01)	06:30			07:19		18:58 (KLZ_WT05)	08:07		09:25 (SAM_WT06)	08:01		08:42 (SAM_WT11)	08:42		09:59 (SAM_WT07)
	21:56	76	20:02 (KLZ_WT04)	21:09			20:02	19	19:17 (KLZ_WT05)	18:55	23	18:27 (KLZ_WT13)	16:58	16	08:58 (SAM_WT11)	16:38	65	13:07 (KLZ_WT23)
16	05:47		06:32 (KLZ_WT01)	06:32			07:21		18:59 (KLZ_WT05)	08:09		09:22 (SAM_WT06)	08:02		08:42 (SAM_WT11)	08:43		09:59 (SAM_WT07)
	21:55	75	20:02 (KLZ_WT04)	21:07			19:59	15	19:14 (KLZ_WT05)	18:52	23	18:24 (KLZ_WT20)	16:57	18	09:00 (SAM_WT11)	16:38	67	13:08 (KLZ_WT23)
17	05:49		06:31 (KLZ_WT01)	06:33			07:22		19:02 (KLZ_WT05)	08:11		09:20 (SAM_WT06)	08:04		08:41 (SAM_WT11)	08:44		10:00 (SAM_WT07)
	21:54	75	20:01 (KLZ_WT04)	21:05			19:57	9	19:11 (KLZ_WT05)	18:50	23	18:22 (KLZ_WT20)	16:56	20	09:01 (SAM_WT11)	16:38	66	13:09 (KLZ_WT23)
18	05:50		06:31 (KLZ_WT01)	06:35			07:24		19:18 (EVE_WT01)	08:12		09:18 (SAM_WT06)	08:06		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:52	73	20:00 (KLZ_WT04)	21:03			19:55	5	19:23 (EVE_WT01)	18:48	25	09:43 (SAM_WT06)	16:55	21	09:01 (SAM_WT11)	16:39	67	13:09 (KLZ_WT23)
19	05:51		06:31 (KLZ_WT01)	06:37		07:03 (SAM_WT01)	07:25		19:16 (EVE_WT01)	08:14		09:17 (SAM_WT06)	08:07		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:51	71	19:59 (KLZ_WT04)	21:01	2	07:05 (SAM_WT01)	19:53	10	19:26 (EVE_WT01)	18:46	28	09:45 (SAM_WT06)	16:53	22	09:02 (SAM_WT11)	16:39	68	13:10 (KLZ_WT23)
20	05:52		06:31 (KLZ_WT01)	06:38		07:05 (SAM_WT01)	07:27		19:15 (EVE_WT01)	08:16		09:16 (SAM_WT06)	08:09		08:40 (SAM_WT11)	08:46		10:01 (SAM_WT07)
	21:50	70	19:58 (KLZ_WT04)	20:59	2	07:07 (SAM_WT01)	19:50	9	19:24 (EVE_WT01)	18:44	30	09:46 (SAM_WT06)	16:52	23	09:03 (SAM_WT11)	16:39	67	13:10 (KLZ_WT23)
21	05:54		06:32 (KLZ_WT01)	06:40		07:06 (SAM_WT01)	07:28		19:13 (EVE_WT01)	08:17		09:15 (SAM_WT06)	08:11		08:41 (SAM_WT11)	08:47		10:01 (SAM_WT07)
	21:49	68	19:58 (KLZ_WT04)	20:57	1	07:07 (SAM_WT01)	19:48	8	19:21 (EVE_WT01)	18:42	31	09:46 (SAM_WT06)	16:51	22	09:03 (SAM_WT11)	16:40	67	13:10 (KLZ_WT23)
22	05:55		06:32 (KLZ_WT01)	06:41			07:30		19:13 (EVE_WT01)	08:19		09:14 (SAM_WT06)	08:12		08:43 (SAM_WT11)	08:47		10:02 (SAM_WT07)
	21:48	65	19:57 (KLZ_WT04)	20:55			19:46	7	19:20 (EVE_WT01)	18:40	32	09:46 (SAM_WT06)	16:50	21	09:04 (SAM_WT11)	16:40	67	13:11 (KLZ_WT23)
23	05:56		06:32 (KLZ_WT01)	06:43			07:32		19:12 (EVE_WT01)	08:21		09:14 (SAM_WT06)	08:14		08:44 (SAM_WT11)	08:48		10:02 (SAM_WT07)
	21:47	62	19:55 (KLZ_WT04)	20:52			19:43	5	19:17 (EVE_WT01)	18:38	33	09:47 (SAM_WT06)	16:49	19	09:03 (SAM_WT11)	16:41	67	13:11 (KLZ_WT23)
24	05:58		06:33 (KLZ_WT01)	06:44			07:33		18:59 (KLZ_WT12)	08:23		09:14 (SAM_WT06)	08:16		08:46 (SAM_WT04)	08:48		10:02 (SAM_WT07)
	21:45	58	19:54 (KLZ_WT04)	20:50			19:41	7	19:15 (EVE_WT01)	18:36	33	09:47 (SAM_WT06)	16:48	18	09:04 (SAM_WT11)	16:41	67	13:11 (KLZ_WT23)
25	05:59		06:34 (KLZ_WT01)	06:46		07:16 (SAM_WT03)	07:35		18:56 (KLZ_WT12)	07:24		08:14 (SAM_WT06)	08:17		08:48 (SAM_WT04)	08:48		10:04 (SAM_WT07)
	21:44	55	19:53 (KLZ_WT04)	20:48	5	07:21 (SAM_WT03)	19:39	10	19:06 (KLZ_WT12)	17:34	33	08:47 (SAM_WT06)	16:47	17	09:05 (SAM_WT11)	16:42	67	13:13 (KLZ_WT23)
26	06:00		06:34 (KLZ_WT01)	06:48		07:14 (SAM_WT03)	07:36		18:39 (KLZ_WT06)	07:26		08:14 (SAM_WT06)	08:19		08:49 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:43	51	19:51 (KLZ_WT04)	20:46	9	07:23 (SAM_WT03)	19:37	18	19:07 (KLZ_WT12)	17:32	33	08:47 (SAM_WT06)	16:46	15	09:04 (SAM_WT11)	16:43	66	13:13 (KLZ_WT23)
27	06:02		06:35 (KLZ_WT01)	06:49		07:15 (SAM_WT03)	07:38		18:36 (KLZ_WT06)	07:28		08:13 (SAM_WT06)	08:20		08:51 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:41	45	19:49 (KLZ_WT04)	20:44	8	07:23 (SAM_WT03)	19:34	26	19:08 (KLZ_WT12)	17:30	33	08:46 (SAM_WT06)	16:45	27	12:46 (KLZ_WT23)	16:43	67	13:13 (KLZ_WT23)
28	06:03		06:37 (KLZ_WT01)	06:51		07:17 (SAM_WT03)	07:40		18:27 (KLZ_WT20)	07:30		08:13 (SAM_WT06)	08:22		08:53 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:40	37	19:47 (KLZ_WT04)	20:42	6	07:23 (SAM_WT03)	19:32	33	19:05 (KLZ_WT12)	17:28	33	08:46 (SAM_WT06)	16:44	30	12:49 (KLZ_WT23)	16:44	65	13:13 (KLZ_WT23)
29	06:05		06:38 (KLZ_WT01)	06:52		07:18 (SAM_WT03)	07:41		18:23 (KLZ_WT20)	07:31		08:14 (SAM_WT06)	08:23		08:54 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:38	28	19:44 (KLZ_WT04)	20:40	5	07:23 (SAM_WT03)	19:30	36	19:03 (KLZ_WT12)	17:26	32	08:46 (SAM_WT06)	16:43	33	12:51 (KLZ_WT23)	16:45	65	13:13 (KLZ_WT23)
30	06:06		19:28 (KLZ_WT04)	06:54		07:20 (SAM_WT03)	07:43		18:20 (KLZ_WT20)	07:33		08:14 (SAM_WT06)	08:25		08:56 (SAM_WT04)	08:50		10:06 (SAM_WT07)
	21:37	10	19:38 (KLZ_WT04)	20:38	14	19:21 (KLZ_WT05)	19:28	37	19:00 (KLZ_WT12)	17:25	32	08:46 (SAM_WT06)	16:43	34	12:53 (KLZ_WT23)	16:46	64	13:14 (KLZ_WT23)
31	06:07			06:55		19:05 (KLZ_WT05)				07:35		08:15 (SAM_WT06)				08:50		10:07 (SAM_WT07)
	21:35			20:35	17	19:22 (KLZ_WT05)				17:23	30	08:45 (SAM_WT06)				16:47	62	13:14 (KLZ_WT23)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		2077			80			652			937			519			1862	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59			0,64			0,63			0,60			0,56			0,64	
Total reduction		0,26			0,29			0,27			0,21			0,15			0,14	
Total, real		533			23			174			198			76			262	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	66	11:38 (KLZ_WT23)	17:35	97	11:58 (KLZ_WT23)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	67	11:39 (KLZ_WT23)	17:36	98	11:58 (KLZ_WT23)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	67	11:40 (KLZ_WT23)	17:38	99	11:58 (KLZ_WT23)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	68	11:41 (KLZ_WT23)	17:40	98	11:58 (KLZ_WT23)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	69	11:42 (KLZ_WT23)	17:42	100	11:58 (KLZ_WT23)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	67	11:42 (KLZ_WT23)	17:44	102	11:57 (KLZ_WT23)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	67	11:43 (KLZ_WT23)	17:45	104	11:57 (KLZ_WT23)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	67	11:44 (KLZ_WT23)	17:47	104	11:57 (KLZ_WT23)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	67	11:45 (KLZ_WT23)	17:49	105	11:56 (KLZ_WT23)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	66	11:46 (KLZ_WT23)	17:51	104	11:56 (KLZ_WT23)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	62	11:46 (KLZ_WT23)	17:53	103	11:55 (KLZ_WT23)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46		10:49 (KLZ_WT23)	08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02	59	11:48 (KLZ_WT23)	17:54	100	11:54 (KLZ_WT23)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45		10:49 (KLZ_WT23)	08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03	60	11:49 (KLZ_WT23)	17:56	97	11:53 (KLZ_WT23)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44		10:49 (KLZ_WT23)	08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05	60	11:49 (KLZ_WT23)	17:58	91	11:51 (KLZ_WT23)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44		10:49 (KLZ_WT23)	08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06	61	11:50 (KLZ_WT23)	18:00	84	11:50 (KLZ_WT23)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43		10:49 (KLZ_WT23)	07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08	62	11:51 (KLZ_WT23)	18:02	76	11:49 (KLZ_WT23)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42		10:49 (KLZ_WT23)	07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09	62	11:51 (KLZ_WT23)	18:03	69	11:47 (KLZ_WT23)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41		10:49 (KLZ_WT23)	07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11	63	11:52 (KLZ_WT23)	18:05	65	11:45 (KLZ_WT23)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40		10:49 (KLZ_WT23)	07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12	64	11:53 (KLZ_WT23)	18:07	58	11:42 (KLZ_WT23)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39		10:49 (KLZ_WT23)	07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14	65	11:54 (KLZ_WT23)	18:09	52	11:40 (KLZ_WT23)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38		10:48 (KLZ_WT23)	07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16	66	11:54 (KLZ_WT23)	18:11	41	11:36 (KLZ_WT23)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37		10:48 (KLZ_WT23)	07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17	66	11:54 (KLZ_WT23)	18:12	26	11:31 (KLZ_WT23)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	74	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	81	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	86	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	88	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	91	11:57 (KLZ_WT23)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	91	11:57 (KLZ_WT23)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	94	11:57 (KLZ_WT23)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	95	11:58 (KLZ_WT23)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	97	11:58 (KLZ_WT23)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2218			1873			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59			0,58			0,60			0,60			0,57			0,71	
Total reduction		0,14			0,17			0,22			0,27			0,25			0,31	
Total, real		317			320			171			277			39			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	06:10 (KLZ_WT01)	21:34		06:38 (SAM_WT09)	20:33		20:03 (EVE_WT01)	19:25		18:58 (KLZ_WT13)	17:21		11:25 (KLZ_WT23)	16:42		11:29 (KLZ_WT23)
2	05:34	06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:32			20:31		20:03 (EVE_WT01)	19:23		08:32 (SAM_WT06)	17:19		11:26 (KLZ_WT23)	16:41		11:29 (KLZ_WT23)
3	05:35	06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:30			20:29		20:03 (EVE_WT01)	19:21		08:28 (SAM_WT06)	17:17		11:26 (KLZ_WT23)	16:41		11:28 (KLZ_WT23)
4	05:36	06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	06:09 (KLZ_WT01)	21:29		20:11 (KLZ_WT06)	20:27		20:00 (EVE_WT01)	19:19			17:16		11:27 (KLZ_WT23)	16:40		11:29 (KLZ_WT23)
5	05:37	06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	06:07 (KLZ_WT01)	21:27		20:15 (KLZ_WT06)	20:24		19:58 (EVE_WT01)	19:16			17:14		11:27 (KLZ_WT23)	16:40		11:29 (KLZ_WT23)
6	05:37		06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02		21:25		20:16 (KLZ_WT06)	20:22		19:55 (EVE_WT01)	19:14			17:12		11:28 (KLZ_WT23)	16:39		11:28 (KLZ_WT23)
7	05:38		06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02		21:24		20:18 (KLZ_WT06)	20:20		19:54 (EVE_WT01)	19:12			17:11		11:28 (KLZ_WT23)	16:39		11:29 (KLZ_WT23)
8	05:39		06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01		21:22		20:19 (KLZ_WT06)	20:18		19:51 (EVE_WT01)	19:10			17:09		11:28 (KLZ_WT23)	16:39		11:29 (KLZ_WT23)
9	05:40		06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00		21:20		20:19 (KLZ_WT06)	20:15		19:49 (KLZ_WT12)	19:08			17:07		11:29 (KLZ_WT23)	16:38		11:29 (KLZ_WT23)
10	05:41		06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00		21:18		20:20 (KLZ_WT06)	20:13		19:46 (KLZ_WT12)	19:05			17:06		11:29 (KLZ_WT23)	16:38		11:28 (KLZ_WT23)
11	05:42		06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59		21:16		20:20 (KLZ_WT06)	20:11		19:43 (KLZ_WT20)	19:03			17:04		11:29 (KLZ_WT23)	16:38		11:28 (KLZ_WT23)
12	05:43		06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58		21:14		20:21 (KLZ_WT06)	20:09		19:42 (KLZ_WT20)	19:01			17:03		11:29 (KLZ_WT23)	16:38		11:28 (KLZ_WT23)
13	05:44		06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57		21:12		20:20 (KLZ_WT06)	20:06		19:40 (KLZ_WT20)	18:59			17:01		11:29 (KLZ_WT23)	16:38		11:29 (KLZ_WT23)
14	05:45		06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56		21:11		20:21 (KLZ_WT06)	20:04		19:37 (KLZ_WT20)	18:57			17:00		11:29 (KLZ_WT23)	16:38		11:29 (KLZ_WT23)
15	05:46		06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56		21:09		20:20 (KLZ_WT06)	20:02		19:35 (KLZ_WT20)	18:55			16:58		11:29 (KLZ_WT23)	16:38		11:29 (KLZ_WT23)
16	05:48		06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55		21:07		20:20 (KLZ_WT06)	19:59		19:33 (KLZ_WT20)	18:52			16:57		16:26 (KLZ_WT15)	16:38		11:30 (KLZ_WT23)
17	05:49		06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54		21:05		20:19 (KLZ_WT06)	19:57		19:31 (KLZ_WT20)	18:50			16:56		16:25 (KLZ_WT15)	16:38		11:30 (KLZ_WT23)
18	05:50		06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52		21:03		20:19 (KLZ_WT06)	19:55		19:28 (KLZ_WT20)	18:48			16:55		16:23 (KLZ_WT15)	16:39		11:30 (KLZ_WT23)
19	05:51		06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14		11:47 (KLZ_WT23)	08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51		21:01		20:18 (KLZ_WT06)	19:53		19:26 (KLZ_WT20)	18:46		11:57 (KLZ_WT23)	16:53		16:22 (KLZ_WT15)	16:39		11:30 (KLZ_WT23)
20	05:52		06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09		10:23 (KLZ_WT23)	08:46		09:20 (SAM_WT05)
	21:50		20:59		20:18 (KLZ_WT06)	19:50		19:24 (KLZ_WT20)	18:44		12:04 (KLZ_WT23)	16:52		11:29 (KLZ_WT23)	16:39		11:31 (KLZ_WT23)
21	05:54		06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11		10:24 (KLZ_WT23)	08:47		09:20 (SAM_WT05)
	21:49		20:57		20:16 (KLZ_WT06)	19:48		08:41 (SAM_WT06)	18:42		12:08 (KLZ_WT23)	16:51		11:30 (KLZ_WT23)	16:40		11:31 (KLZ_WT23)
22	05:55		06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12		10:25 (KLZ_WT23)	08:47		09:21 (SAM_WT05)
	21:48		20:55		20:14 (KLZ_WT06)	19:46		08:42 (SAM_WT06)	18:40		12:11 (KLZ_WT23)	16:50		11:30 (KLZ_WT23)	16:40		11:32 (KLZ_WT23)
23	05:56		06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14		10:25 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:47		20:52		20:12 (KLZ_WT06)	19:44		19:08 (KLZ_WT13)	18:38		12:14 (KLZ_WT23)	16:49		11:29 (KLZ_WT23)	16:41		11:32 (KLZ_WT23)
24	05:58		06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16		10:26 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:45		20:50		20:10 (KLZ_WT06)	19:41		19:10 (KLZ_WT13)	18:36		12:16 (KLZ_WT23)	16:48		11:29 (KLZ_WT23)	16:41		11:32 (KLZ_WT23)
25	05:59		06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17		10:27 (KLZ_WT23)	08:48		09:22 (SAM_WT05)
	21:44		20:48		19:31 (KLZ_WT20)	19:39		19:11 (KLZ_WT13)	17:34		11:18 (KLZ_WT23)	16:47		11:30 (KLZ_WT23)	16:42		11:33 (KLZ_WT23)
26	06:00		06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19		10:27 (KLZ_WT23)	08:49		09:22 (SAM_WT05)
	21:43		20:46		19:37 (KLZ_WT20)	19:37		19:10 (KLZ_WT13)	17:32		11:19 (KLZ_WT23)	16:46		11:29 (KLZ_WT23)	16:43		11:34 (KLZ_WT23)
27	06:02		06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20		10:28 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:41		20:44		19:39 (KLZ_WT20)	19:34		19:08 (KLZ_WT13)	17:30		11:20 (KLZ_WT23)	16:45		11:29 (KLZ_WT23)	16:43		11:34 (KLZ_WT23)
28	06:03		06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:40		20:42		19:42 (KLZ_WT20)	19:32		19:05 (KLZ_WT13)	17:28		11:21 (KLZ_WT23)	16:44		11:29 (KLZ_WT23)	16:44		11:35 (KLZ_WT23)
29	06:05		06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:38		20:40		19:56 (KLZ_WT12)	19:30		19:03 (KLZ_WT13)	17:26		11:23 (KLZ_WT23)	16:43		11:29 (KLZ_WT23)	16:45		11:36 (KLZ_WT23)
30	06:06		06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25		10:30 (KLZ_WT23)	08:50		09:24 (SAM_WT05)
	21:37		20:38		19:59 (KLZ_WT12)	19:28		19:00 (KLZ_WT13)	17:25		11:24 (KLZ_WT23)	16:43		11:29 (KLZ_WT23)	16:46		11:36 (KLZ_WT23)
31	06:08	06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	06:37 (SAM_WT09)	20:35		20:01 (EVE_WT01)				17:23		11:25 (KLZ_WT23)				16:47		11:37 (KLZ_WT23)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		20		644			1274			938			2495			2019	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97		0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71		0,58			0,61			0,58			0,59			0,58	
Total reduction		0,31		0,27			0,26			0,21			0,15			0,13	
Total, real		6		171			327			194			384			258	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		20:36 (KLZ_WT13)	05:36		06:27 (SAM_WT06)
	16:48			17:35	37	17:05 (KLZ_WT16)	18:25			20:17	20	08:07 (SAM_WT11)	21:06	2	20:38 (KLZ_WT13)	21:50	28	21:13 (EVE_WT01)
2	08:49			08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		20:35 (KLZ_WT13)	05:36		06:28 (SAM_WT06)
	16:49			17:36	37	17:07 (KLZ_WT16)	18:26			20:19	17	08:05 (SAM_WT11)	21:08	5	20:40 (KLZ_WT13)	21:52	26	21:13 (EVE_WT01)
3	08:49			08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		20:34 (KLZ_WT13)	05:35		06:28 (SAM_WT06)
	16:50			17:38	35	17:07 (KLZ_WT16)	18:28			20:20	17	08:04 (SAM_WT11)	21:09	7	20:41 (KLZ_WT13)	21:53	20	06:48 (SAM_WT06)
4	08:49			08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		20:34 (KLZ_WT13)	05:34		06:29 (SAM_WT06)
	16:51			17:40	33	09:56 (CBR_WT01)	18:30			20:22	21	08:06 (SAM_WT07)	21:11	9	20:43 (KLZ_WT13)	21:54	18	06:47 (SAM_WT06)
5	08:49			08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:52			17:42	32	09:55 (CBR_WT01)	18:32			20:24	24	08:07 (SAM_WT07)	21:13	10	20:44 (KLZ_WT13)	21:55	17	06:47 (SAM_WT06)
6	08:49			08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:54			17:44	30	09:54 (CBR_WT01)	18:33			20:25	27	08:07 (SAM_WT07)	21:14	11	20:45 (KLZ_WT13)	21:56	16	06:46 (SAM_WT06)
7	08:48			08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:55			17:45	28	09:53 (CBR_WT01)	18:35			20:27	29	08:08 (SAM_WT07)	21:16	13	20:47 (KLZ_WT13)	21:56	16	06:47 (SAM_WT06)
8	08:48			08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:56			17:47	27	09:53 (CBR_WT01)	18:37			20:29	31	08:09 (SAM_WT07)	21:17	14	20:48 (KLZ_WT13)	21:57	15	06:46 (SAM_WT06)
9	08:47			08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58			17:49	23	09:51 (CBR_WT01)	18:39			20:30	31	08:09 (SAM_WT07)	21:19	25	20:49 (KLZ_WT13)	21:58	12	06:45 (SAM_WT06)
10	08:47			08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59			17:51	20	09:49 (CBR_WT01)	18:40			20:32	32	08:09 (SAM_WT07)	21:21	27	20:48 (KLZ_WT13)	21:59	11	06:45 (SAM_WT06)
11	08:46		09:31 (CBR_WT01)	08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	4	09:35 (CBR_WT01)	17:53	16	09:47 (CBR_WT01)	18:42			20:33	32	08:09 (SAM_WT07)	21:22	26	20:47 (KLZ_WT13)	22:00	10	06:45 (SAM_WT06)
12	08:46		09:28 (CBR_WT01)	08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	10	09:38 (CBR_WT01)	17:54	9	09:43 (CBR_WT01)	18:44			20:35	33	08:08 (SAM_WT07)	21:24	26	20:45 (KLZ_WT13)	22:00	9	06:44 (SAM_WT06)
13	08:45		09:27 (CBR_WT01)	08:04			07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	14	09:41 (CBR_WT01)	17:56			18:45	1	07:29 (SAM_WT04)	20:37	33	08:08 (SAM_WT07)	21:25	21	06:48 (SAM_WT06)	22:01	7	06:43 (SAM_WT06)
14	08:44		09:26 (CBR_WT01)	08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	17	09:43 (CBR_WT01)	17:58	4	08:30 (SAM_WT05)	18:47	4	07:30 (SAM_WT04)	20:38	33	08:08 (SAM_WT07)	21:27	23	06:48 (SAM_WT06)	22:01	5	06:43 (SAM_WT06)
15	08:44		09:25 (CBR_WT01)	08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	19	09:44 (CBR_WT01)	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	32	08:07 (SAM_WT07)	21:28	24	06:49 (SAM_WT06)	22:02	3	06:42 (SAM_WT06)
16	08:43		09:24 (CBR_WT01)	07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		
	17:08	22	09:46 (CBR_WT01)	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	34	08:07 (SAM_WT07)	21:30	25	06:50 (SAM_WT06)	22:03		
17	08:42		09:23 (CBR_WT01)	07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		
	17:09	24	09:47 (CBR_WT01)	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	34	08:06 (SAM_WT07)	21:31	25	06:49 (SAM_WT06)	22:03		
18	08:41		09:23 (CBR_WT01)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		
	17:11	25	09:48 (CBR_WT01)	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	34	08:05 (SAM_WT07)	21:33	27	21:03 (EVE_WT01)	22:03		
19	08:40		09:22 (CBR_WT01)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		
	17:12	28	09:50 (CBR_WT01)	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	36	20:20 (EVE_WT02)	21:34	28	21:04 (EVE_WT01)	22:04		
20	08:39		09:22 (CBR_WT01)	07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		
	17:14	29	09:51 (CBR_WT01)	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	35	20:22 (EVE_WT02)	21:35	31	21:06 (EVE_WT01)	22:04		
21	08:38		09:21 (CBR_WT01)	07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		
	17:16	30	09:51 (CBR_WT01)	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	28	20:23 (EVE_WT02)	21:37	33	21:06 (EVE_WT01)	22:04		
22	08:37		09:21 (CBR_WT01)	07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		
	17:17	31	09:52 (CBR_WT01)	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	27	20:25 (EVE_WT02)	21:38	35	21:07 (EVE_WT01)	22:05		
23	08:36		09:21 (CBR_WT01)	07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		
	17:19	32	09:53 (CBR_WT01)	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	22	20:26 (EVE_WT02)	21:39	36	21:09 (EVE_WT01)	22:05		
24	08:35		09:20 (CBR_WT01)	07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		
	17:21	33	09:53 (CBR_WT01)	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	13	20:28 (EVE_WT02)	21:41	37	21:10 (EVE_WT01)	22:05		
25	08:34		09:20 (CBR_WT01)	07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		20:17 (EVE_WT02)	05:43		06:24 (SAM_WT06)	05:31		
	17:22	34	09:54 (CBR_WT01)	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	12	20:29 (EVE_WT02)	21:42	36	21:11 (EVE_WT01)	22:05		
26	08:32		09:21 (CBR_WT01)	07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		20:18 (EVE_WT02)	05:42		06:24 (SAM_WT06)	05:31		
	17:24	34	09:55 (CBR_WT01)	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	9	20:27 (EVE_WT02)	21:43	36	21:12 (EVE_WT01)	22:05		
27	08:31		09:20 (CBR_WT01)	07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		20:21 (EVE_WT02)	05:41		06:25 (SAM_WT06)	05:32		
	17:26	35	09:55 (CBR_WT01)	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	3	20:24 (EVE_WT02)	21:45	36	21:13 (EVE_WT01)	22:05		
28	08:30		09:21 (CBR_WT01)	07:34			06:32		06:54 (SAM_WT11)	06:26			05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	35	09:56 (CBR_WT01)	18:23			19:10	15	07:09 (SAM_WT11)	21:01			21:46	36	21:14 (EVE_WT01)	22:05	4	06:45 (SAM_WT06)
29	08:28		09:20 (CBR_WT01)				07:30		07:52 (SAM_WT11)	06:24			05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	35	09:55 (CBR_WT01)				20:12	17	08:09 (SAM_WT11)	21:03			21:47	36	21:16 (EVE_WT01)	22:05	6	06:46 (SAM_WT06)
30	08:27		09:21 (CBR_WT01)				07:28		07:50 (SAM_WT11)	06:22			05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	35	09:56 (CBR_WT01)				20:14	19	08:09 (SAM_WT11)	21:05			21:48	35	21:15 (EVE_WT01)	22:04	8	06:48 (SAM_WT06)
31	08:25		09:21 (CBR_WT01)				07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	37	17:03 (KLZ_WT16)				20:15	20	08:08 (SAM_WT11)				21:49	31	21:14 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		563			562			201			699			766			231	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,55			0,61			0,62			0,65			0,68	
Total reduction		0,13			0,16			0,23			0,28			0,29			0,29	
Total, real		72			90			45			197			222			68	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	10	06:49 (SAM_WT06)	21:34	26	20:56 (KLZ_WT13)	20:33	32	08:08 (SAM_WT07)	19:25			17:21	22	09:20 (CBR_WT01)	16:42	4	09:17 (CBR_WT01)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		
	22:04	11	06:49 (SAM_WT06)	21:32	26	20:58 (KLZ_WT13)	20:31	32	08:07 (SAM_WT07)	19:23			17:19	24	09:21 (CBR_WT01)	16:41		
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		
	22:04	12	06:50 (SAM_WT06)	21:30	27	20:59 (KLZ_WT13)	20:29	31	08:07 (SAM_WT07)	19:21			17:17	27	09:22 (CBR_WT01)	16:41		
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		
	22:03	14	06:52 (SAM_WT06)	21:29	22	20:59 (KLZ_WT13)	20:27	31	08:06 (SAM_WT07)	19:19			17:16	29	09:23 (CBR_WT01)	16:40		
5	05:37		06:37 (SAM_WT06)	06:15		20:45 (KLZ_WT13)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		
	22:03	15	06:52 (SAM_WT06)	21:27	13	20:58 (KLZ_WT13)	20:24	29	08:05 (SAM_WT07)	19:16			17:14	30	09:24 (CBR_WT01)	16:40		
6	05:37		06:37 (SAM_WT06)	06:17		20:44 (KLZ_WT13)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		
	22:02	16	06:53 (SAM_WT06)	21:25	12	20:56 (KLZ_WT13)	20:22	26	08:03 (SAM_WT07)	19:14			17:12	32	09:25 (CBR_WT01)	16:39		
7	05:38		06:36 (SAM_WT06)	06:18		20:44 (KLZ_WT13)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		
	22:02	17	06:53 (SAM_WT06)	21:23	11	20:55 (KLZ_WT13)	20:20	24	08:02 (SAM_WT07)	19:12			17:11	33	09:26 (CBR_WT01)	16:39		
8	05:39		06:36 (SAM_WT06)	06:20		20:43 (KLZ_WT13)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		
	22:01	18	06:54 (SAM_WT06)	21:22	10	20:53 (KLZ_WT13)	20:18	21	08:00 (SAM_WT07)	19:10			17:09	36	16:39 (KLZ_WT16)	16:39		
9	05:40		06:36 (SAM_WT06)	06:21		20:43 (KLZ_WT13)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		
	22:00	19	06:55 (SAM_WT06)	21:20	8	20:51 (KLZ_WT13)	20:15	17	07:58 (SAM_WT07)	19:08			17:07	39	16:38 (KLZ_WT16)	16:38		
10	05:41		06:36 (SAM_WT06)	06:23		20:44 (KLZ_WT13)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		
	22:00	24	21:20 (EVE_WT01)	21:18	6	20:50 (KLZ_WT13)	20:13	18	07:59 (SAM_WT11)	19:05			17:06	38	16:36 (KLZ_WT16)	16:38		
11	05:42		06:36 (SAM_WT06)	06:24		20:44 (KLZ_WT13)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		
	21:59	27	21:21 (EVE_WT01)	21:16	4	20:48 (KLZ_WT13)	20:11	20	08:00 (SAM_WT11)	19:03			17:04	37	16:35 (KLZ_WT16)	16:38		
12	05:43		06:35 (SAM_WT06)	06:26		20:45 (KLZ_WT13)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		
	21:58	30	21:22 (EVE_WT01)	21:14	1	20:46 (KLZ_WT13)	20:09	20	07:59 (SAM_WT11)	19:01			17:03	35	09:27 (CBR_WT01)	16:38		
13	05:44		06:35 (SAM_WT06)	06:27			07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		
	21:57	33	21:23 (EVE_WT01)	21:12			20:06	19	08:00 (SAM_WT11)	18:59			17:01	35	09:27 (CBR_WT01)	16:38		
14	05:45		06:35 (SAM_WT06)	06:29			07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		
	21:56	34	21:24 (EVE_WT01)	21:11			20:04	17	07:59 (SAM_WT11)	18:57	2	08:57 (SAM_WT05)	17:00	35	09:28 (CBR_WT01)	16:38		
15	05:46		06:35 (SAM_WT06)	06:30			07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		
	21:55	36	21:24 (EVE_WT01)	21:09			20:02	15	07:59 (SAM_WT11)	18:55	11	09:02 (SAM_WT05)	16:59	35	09:28 (CBR_WT01)	16:38		
16	05:48		06:34 (SAM_WT06)	06:32		20:27 (EVE_WT02)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		
	21:54	36	21:23 (EVE_WT01)	21:07	5	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	34	09:28 (CBR_WT01)	16:38		
17	05:49		06:34 (SAM_WT06)	06:33		20:24 (EVE_WT02)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		
	21:53	36	21:22 (EVE_WT01)	21:05	10	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	34	09:28 (CBR_WT01)	16:38		
18	05:50		06:34 (SAM_WT06)	06:35		20:23 (EVE_WT02)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		
	21:52	36	21:21 (EVE_WT01)	21:03	12	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39		
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		
	21:51	37	21:20 (EVE_WT01)	21:01	16	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39		
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		
	21:50	38	21:19 (EVE_WT01)	20:59	24	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39		
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		
	21:49	37	21:19 (EVE_WT01)	20:57	26	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40		
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		
	21:48	35	21:17 (EVE_WT01)	20:55	29	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40		
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		
	21:47	32	21:16 (EVE_WT01)	20:52	36	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	28	09:26 (CBR_WT01)	16:41		
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		
	21:45	29	21:14 (EVE_WT01)	20:50	35	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	26	09:26 (CBR_WT01)	16:41		
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		
	21:44	29	21:14 (EVE_WT01)	20:48	34	08:08 (SAM_WT07)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	24	09:25 (CBR_WT01)	16:42		
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		
	21:43	26	07:00 (SAM_WT06)	20:46	34	08:09 (SAM_WT07)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	22	09:24 (CBR_WT01)	16:43		
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		
	21:41	26	07:00 (SAM_WT06)	20:44	34	08:09 (SAM_WT07)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	20	09:24 (CBR_WT01)	16:43		
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		
	21:40	24	07:00 (SAM_WT06)	20:42	32	08:09 (SAM_WT07)	19:32	8	08:12 (SAM_WT04)	17:28	3	07:59 (SAM_WT05)	16:44	17	09:23 (CBR_WT01)	16:44		
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31			08:23		09:07 (CBR_WT01)	08:49		
	21:38	23	06:59 (SAM_WT06)	20:40	33	08:09 (SAM_WT07)	19:30	6	08:12 (SAM_WT04)	17:26			16:43	14	09:21 (CBR_WT01)	16:45		
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		
	21:37	22	06:58 (SAM_WT06)	20:38	33	08:09 (SAM_WT07)	19:28	2	08:09 (SAM_WT04)	17:25	11	09:14 (CBR_WT01)	16:43	10	09:20 (CBR_WT01)	16:46		
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		
	21:35	21	06:58 (SAM_WT06)	20:35	33	08:08 (SAM_WT07)				17:23	17	09:17 (CBR_WT01)				16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case	803			592			488			266			871			4		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,67			0,61			0,62			0,56			0,53			0,53		
Total reduction	0,29			0,28			0,26			0,20			0,14			0,12		
Total, real	235			165			128			53			121			0		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January		February			March			April			May			June		
1	08:49		08:24			07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48		17:35			18:25	121	17:51 (KLZ_WT10)	20:17	195	16:35 (CBR_WT01)	21:06	110	20:38 (EVE_WT02)	21:50	20	06:24 (SAM_WT11)
2	08:49		08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49		17:36			18:26	125	17:51 (KLZ_WT10)	20:19	194	16:35 (CBR_WT01)	21:08	106	20:40 (EVE_WT02)	21:51	21	06:25 (SAM_WT11)
3	08:49		08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50		17:38			18:28	127	17:50 (KLZ_WT10)	20:20	194	16:35 (CBR_WT01)	21:09	102	20:41 (EVE_WT02)	21:53	22	06:25 (SAM_WT11)
4	08:49		08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51		17:40			18:30	128	17:49 (KLZ_WT10)	20:22	194	16:35 (CBR_WT01)	21:11	96	16:17 (CBR_WT01)	21:54	24	06:26 (SAM_WT11)
5	08:49		08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52		17:42			18:32	124	17:46 (KLZ_WT10)	20:24	193	16:35 (CBR_WT01)	21:13	91	16:16 (CBR_WT01)	21:55	25	06:27 (SAM_WT11)
6	08:49		08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54		17:44			18:33	116	17:32 (KLZ_WT11)	20:25	192	16:34 (CBR_WT01)	21:14	85	16:14 (CBR_WT01)	21:55	26	06:27 (SAM_WT11)
7	08:48		08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55		17:45			18:35	115	17:30 (KLZ_WT11)	20:27	191	16:34 (CBR_WT01)	21:16	79	16:13 (CBR_WT01)	21:56	27	06:28 (SAM_WT11)
8	08:48		08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56		17:47			18:37	110	17:26 (KLZ_WT11)	20:28	189	16:34 (CBR_WT01)	21:17	72	16:11 (CBR_WT01)	21:57	28	06:28 (SAM_WT11)
9	08:47		08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57		17:49			18:38	108	15:26 (CBR_WT01)	20:30	187	16:34 (CBR_WT01)	21:19	66	16:10 (CBR_WT01)	21:58	29	06:29 (SAM_WT11)
10	08:47		08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59		17:51			18:40	111	15:27 (CBR_WT01)	20:32	185	16:34 (CBR_WT01)	21:20	58	16:08 (CBR_WT01)	21:59	29	06:29 (SAM_WT11)
11	08:46		08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00		17:53			18:42	113	15:28 (CBR_WT01)	20:33	182	16:32 (CBR_WT01)	21:22	51	16:07 (CBR_WT01)	21:59	30	06:29 (SAM_WT11)
12	08:46		08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02		17:54			18:44	116	15:30 (CBR_WT01)	20:35	179	16:32 (CBR_WT01)	21:24	42	20:54 (KLZ_WT13)	22:00	31	06:30 (SAM_WT11)
13	08:45		08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03		17:56			18:45	118	15:30 (CBR_WT01)	20:37	175	16:32 (CBR_WT01)	21:25	29	20:56 (KLZ_WT13)	22:01	31	06:30 (SAM_WT11)
14	08:44		08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:55 (KLZ_WT13)	05:30		05:59 (SAM_WT11)
	17:05		17:58			18:47	120	15:31 (CBR_WT01)	20:38	171	16:31 (CBR_WT01)	21:27	2	20:57 (KLZ_WT13)	22:01	32	06:31 (SAM_WT11)
15	08:44		08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56			05:30		05:59 (SAM_WT11)
	17:06		18:00			18:49	128	15:31 (CBR_WT01)	20:40	167	16:31 (CBR_WT01)	21:28			22:02	32	06:31 (SAM_WT11)
16	08:43		07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55			05:29		05:59 (SAM_WT11)
	17:08		18:02			18:50	143	15:32 (CBR_WT01)	20:42	161	16:31 (CBR_WT01)	21:30			22:02	33	06:32 (SAM_WT11)
17	08:42		07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53			05:29		05:59 (SAM_WT11)
	17:09		18:03			18:52	151	15:32 (CBR_WT01)	20:43	155	16:30 (CBR_WT01)	21:31			22:03	33	06:32 (SAM_WT11)
18	08:41		07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52			05:29		05:59 (SAM_WT11)
	17:11		18:05			18:54	159	15:33 (CBR_WT01)	20:45	149	16:30 (CBR_WT01)	21:32			22:03	33	06:32 (SAM_WT11)
19	08:40		07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51			05:29		05:59 (SAM_WT11)
	17:12		18:07			18:55	165	15:34 (CBR_WT01)	20:47	139	16:29 (CBR_WT01)	21:34			22:04	33	06:32 (SAM_WT11)
20	08:39		07:51		17:22 (KLZ_WT11)	06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49			05:30		05:59 (SAM_WT11)
	17:14		18:09	6	17:28 (KLZ_WT11)	18:57	169	15:34 (CBR_WT01)	20:48	130	16:29 (CBR_WT01)	21:35			22:04	33	06:32 (SAM_WT11)
21	08:38		07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48			05:30		05:59 (SAM_WT11)
	17:16		18:11	40	17:31 (KLZ_WT11)	18:59	173	15:34 (CBR_WT01)	20:50	129	16:28 (CBR_WT01)	21:37			22:04	33	06:32 (SAM_WT11)
22	08:37		07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47			05:30		06:00 (SAM_WT11)
	17:17		18:12	54	17:33 (KLZ_WT11)	19:00	177	15:34 (CBR_WT01)	20:51	131	16:27 (CBR_WT01)	21:38			22:04	33	06:33 (SAM_WT11)
23	08:36		07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46			05:30		06:00 (SAM_WT11)
	17:19		18:14	72	17:46 (KLZ_WT10)	19:02	180	15:35 (CBR_WT01)	20:53	131	16:27 (CBR_WT01)	21:39			22:05	33	06:33 (SAM_WT11)
24	08:35		07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21		18:16	88	17:50 (KLZ_WT08)	19:04	183	15:34 (CBR_WT01)	20:55	130	16:26 (CBR_WT01)	21:41	2	21:10 (EVE_WT01)	22:05	33	06:33 (SAM_WT11)
25	08:33		07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22		18:18	99	17:52 (KLZ_WT08)	19:05	186	15:35 (CBR_WT01)	20:56	129	16:25 (CBR_WT01)	21:42	3	21:11 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
26	08:32		07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24		18:19	108	17:54 (KLZ_WT08)	19:07	188	15:35 (CBR_WT01)	20:58	126	16:24 (CBR_WT01)	21:43	7	21:12 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
27	08:31		07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26		18:21	116	17:55 (KLZ_WT08)	19:09	190	15:36 (CBR_WT01)	21:00	123	16:23 (CBR_WT01)	21:45	10	21:13 (EVE_WT01)	22:05	32	06:33 (SAM_WT11)
28	08:30		07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28		18:23	120	17:54 (KLZ_WT08)	19:10	191	15:35 (CBR_WT01)	21:01	119	16:22 (CBR_WT01)	21:46	12	06:19 (SAM_WT11)	22:05	32	06:34 (SAM_WT11)
29	08:28					07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29					20:12	191	16:35 (CBR_WT01)	21:03	116	16:22 (CBR_WT01)	21:47	14	06:20 (SAM_WT11)	22:05	31	06:33 (SAM_WT11)
30	08:27					07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31					20:14	194	16:35 (CBR_WT01)	21:05	112	16:21 (CBR_WT01)	21:48	16	06:22 (SAM_WT11)	22:04	31	06:34 (SAM_WT11)
31	08:25					07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33					20:15	195	16:36 (CBR_WT01)				21:49	18	06:23 (SAM_WT11)			
Potential sun hours	262		279			367			415			482			495		
Total, worst case				703			4615			4768			1071			896	
Sun reduction				0,30			0,38			0,46			0,46			0,44	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,71			0,70			0,70			0,70			0,71	
Total reduction				0,21			0,26			0,32			0,31			0,31	
Total, real				146			1203			1506			335			274	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November	December
1	05:34		06:04 (SAM_WT08)	06:09		07:09 (SAM_WT04)	06:57		08:19 (SAM_WT05)	07:44		14:12 (CBR_WT01)	07:36	08:26
	22:04	30	06:34 (SAM_WT11)	21:33	45	16:15 (CBR_WT01)	20:33	182	16:32 (CBR_WT01)	19:25	117	16:09 (CBR_WT01)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10		07:07 (SAM_WT04)	06:59		08:18 (SAM_WT05)	07:46		14:13 (CBR_WT01)	07:38	08:27
	22:04	30	06:34 (SAM_WT11)	21:32	54	16:17 (CBR_WT01)	20:31	184	16:31 (CBR_WT01)	19:23	115	16:08 (CBR_WT01)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12		07:07 (SAM_WT04)	07:00		08:17 (SAM_WT05)	07:48		14:14 (CBR_WT01)	07:40	08:29
	22:03	29	06:34 (SAM_WT11)	21:30	61	16:19 (CBR_WT01)	20:29	187	16:32 (CBR_WT01)	19:21	112	16:06 (CBR_WT01)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13		07:05 (SAM_WT04)	07:02		08:16 (SAM_WT05)	07:49		14:15 (CBR_WT01)	07:42	08:30
	22:03	28	06:34 (SAM_WT11)	21:29	69	16:21 (CBR_WT01)	20:27	189	16:31 (CBR_WT01)	19:19	110	16:05 (CBR_WT01)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15		07:05 (SAM_WT04)	07:03		08:15 (SAM_WT05)	07:51		14:16 (CBR_WT01)	07:43	08:31
	22:03	27	06:33 (SAM_WT11)	21:27	75	16:22 (CBR_WT01)	20:24	191	16:31 (CBR_WT01)	19:16	107	16:03 (CBR_WT01)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16		07:04 (SAM_WT04)	07:05		08:14 (SAM_WT05)	07:52		14:17 (CBR_WT01)	07:45	08:33
	22:02	26	06:33 (SAM_WT11)	21:25	81	16:23 (CBR_WT01)	20:22	192	16:30 (CBR_WT01)	19:14	114	18:05 (KLZ_WT11)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18		07:04 (SAM_WT04)	07:06		08:14 (SAM_WT05)	07:54		14:18 (CBR_WT01)	07:47	08:34
	22:02	25	06:33 (SAM_WT11)	21:23	87	16:25 (CBR_WT01)	20:20	193	16:30 (CBR_WT01)	19:12	116	18:07 (KLZ_WT11)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20		07:03 (SAM_WT04)	07:08		08:13 (SAM_WT05)	07:56		14:20 (CBR_WT01)	07:49	08:35
	22:01	24	06:33 (SAM_WT11)	21:22	92	16:25 (CBR_WT01)	20:18	194	16:29 (CBR_WT01)	19:10	119	18:20 (KLZ_WT10)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21		07:02 (SAM_WT04)	07:10		08:13 (SAM_WT05)	07:57		14:20 (CBR_WT01)	07:50	08:36
	22:00	23	06:33 (SAM_WT11)	21:20	98	20:51 (EVE_WT02)	20:15	194	16:29 (CBR_WT01)	19:08	127	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23		07:02 (SAM_WT04)	07:11		08:12 (SAM_WT05)	07:59		14:22 (CBR_WT01)	07:52	08:37
	22:00	22	06:33 (SAM_WT11)	21:18	103	20:50 (EVE_WT02)	20:13	195	16:28 (CBR_WT01)	19:05	128	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24		07:01 (SAM_WT04)	07:13		08:12 (SAM_WT05)	08:01		14:24 (CBR_WT01)	07:54	08:38
	21:59	20	06:32 (SAM_WT11)	21:16	108	20:48 (EVE_WT02)	20:11	195	16:28 (CBR_WT01)	19:03	126	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26		07:02 (SAM_WT04)	07:14		08:11 (SAM_WT05)	08:02		14:25 (CBR_WT01)	07:56	08:39
	21:58	19	06:32 (SAM_WT11)	21:14	110	16:29 (CBR_WT01)	20:09	195	16:27 (CBR_WT01)	19:01	123	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27		07:01 (SAM_WT04)	07:16		08:12 (SAM_WT05)	08:04		14:27 (CBR_WT01)	07:57	08:40
	21:57	17	06:31 (SAM_WT11)	21:12	115	16:29 (CBR_WT01)	20:06	193	16:27 (CBR_WT01)	18:59	120	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29		07:02 (SAM_WT04)	07:17		08:11 (SAM_WT05)	08:06		14:29 (CBR_WT01)	07:59	08:41
	21:56	15	06:30 (SAM_WT11)	21:11	118	16:30 (CBR_WT01)	20:04	193	16:26 (CBR_WT01)	18:57	119	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30		07:01 (SAM_WT04)	07:19		08:11 (SAM_WT05)	08:07		14:32 (CBR_WT01)	08:01	08:42
	21:55	13	06:29 (SAM_WT11)	21:09	122	16:30 (CBR_WT01)	20:02	192	16:25 (CBR_WT01)	18:55	112	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32		07:02 (SAM_WT04)	07:21		08:11 (SAM_WT05)	08:09		14:33 (CBR_WT01)	08:02	08:43
	21:54	11	06:28 (SAM_WT11)	21:07	124	16:31 (CBR_WT01)	19:59	190	16:24 (CBR_WT01)	18:52	106	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33		07:02 (SAM_WT04)	07:22		08:12 (SAM_WT05)	08:11		14:36 (CBR_WT01)	08:04	08:44
	21:53	9	21:22 (EVE_WT01)	21:05	127	16:31 (CBR_WT01)	19:57	188	16:24 (CBR_WT01)	18:50	95	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35		07:03 (SAM_WT04)	07:24		08:11 (SAM_WT05)	08:12		14:40 (CBR_WT01)	08:06	08:44
	21:52	5	21:21 (EVE_WT01)	21:03	129	16:32 (CBR_WT01)	19:55	186	16:22 (CBR_WT01)	18:48	81	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37		07:04 (SAM_WT04)	07:25		08:12 (SAM_WT05)	08:14		14:43 (CBR_WT01)	08:07	08:45
	21:51	3	21:20 (EVE_WT01)	21:01	130	16:32 (CBR_WT01)	19:53	184	16:22 (CBR_WT01)	18:46	64	18:06 (KLZ_WT11)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38		07:05 (SAM_WT04)	07:27		08:13 (SAM_WT05)	08:16		14:47 (CBR_WT01)	08:09	08:46
	21:50	2	21:19 (EVE_WT01)	20:59	131	16:32 (CBR_WT01)	19:50	182	16:22 (CBR_WT01)	18:44	51	18:03 (KLZ_WT11)	16:52	16:39
21	05:54			06:40		07:06 (SAM_WT04)	07:28		08:14 (SAM_WT05)	08:17		14:54 (CBR_WT01)	08:11	08:46
	21:49			20:57	130	16:32 (CBR_WT01)	19:48	177	16:20 (CBR_WT01)	18:42	33	18:01 (KLZ_WT11)	16:51	16:40
22	05:55			06:41		07:09 (SAM_WT04)	07:30		08:15 (SAM_WT05)	08:19		17:54 (KLZ_WT11)	08:12	08:47
	21:48			20:55	129	16:33 (CBR_WT01)	19:46	175	16:20 (CBR_WT01)	18:40	3	17:57 (KLZ_WT11)	16:50	16:40
23	05:56			06:43		08:39 (SAM_WT05)	07:32		08:16 (SAM_WT05)	08:21			08:14	08:47
	21:46			20:52	128	16:32 (CBR_WT01)	19:43	170	16:18 (CBR_WT01)	18:38			16:49	16:41
24	05:58			06:44		08:35 (SAM_WT05)	07:33		08:17 (SAM_WT05)	08:23			08:15	08:48
	21:45			20:50	141	16:33 (CBR_WT01)	19:41	165	16:17 (CBR_WT01)	18:36			16:48	16:41
25	05:59			06:46		08:31 (SAM_WT05)	07:35		08:18 (SAM_WT05)	07:24			08:17	08:48
	21:44			20:48	149	16:32 (CBR_WT01)	19:39	160	16:16 (CBR_WT01)	17:34			16:47	16:42
26	06:00			06:48		08:29 (SAM_WT05)	07:36		08:21 (SAM_WT05)	07:26			08:19	08:49
	21:42			20:46	156	16:33 (CBR_WT01)	19:37	154	16:15 (CBR_WT01)	17:32			16:46	16:43
27	06:02			06:49		08:26 (SAM_WT05)	07:38		08:24 (SAM_WT05)	07:28			08:20	08:49
	21:41			20:44	162	16:32 (CBR_WT01)	19:34	146	16:14 (CBR_WT01)	17:30			16:45	16:43
28	06:03			06:51		08:25 (SAM_WT05)	07:40		08:27 (SAM_WT05)	07:29			08:22	08:49
	21:40			20:42	167	16:33 (CBR_WT01)	19:32	136	16:12 (CBR_WT01)	17:28			16:44	16:44
29	06:05		21:07 (KLZ_WT13)	06:52		08:23 (SAM_WT05)	07:41		14:11 (CBR_WT01)	07:31			08:23	08:49
	21:38	1	21:08 (KLZ_WT13)	20:40	171	16:32 (CBR_WT01)	19:30	121	16:12 (CBR_WT01)	17:26			16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54		08:22 (SAM_WT05)	07:43		14:11 (CBR_WT01)	07:33			08:24	08:49
	21:37	16	21:07 (KLZ_WT13)	20:38	175	16:33 (CBR_WT01)	19:28	119	16:10 (CBR_WT01)	17:25			16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55		08:20 (SAM_WT05)				07:35				08:49
	21:35	34	21:06 (KLZ_WT13)	20:35	179	16:32 (CBR_WT01)				17:23				16:47
Potential sun hours	498			451			380			333			269	248
Total, worst case		429			3666			5322			2198			
Sun reduction		0,45			0,47			0,43			0,36			
Oper. time red.		0,97			0,97			0,97			0,97			
Wind dir. red.		0,71			0,71			0,69			0,72			
Total reduction		0,31			0,32			0,29			0,25			
Total, real		132			1179			1561			559			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:49			08:24			07:32			07:23		19:33 (CBR_WT01)	06:20		19:41 (SAM_WT05)	05:36		20:49 (KLZ_WT23)
	16:48			17:34			18:25			20:17	18	19:51 (CBR_WT01)	21:06	20	20:01 (SAM_WT05)	21:50	22	21:19 (SAM_WT07)
2	08:49			08:22			07:30			07:21		19:32 (CBR_WT01)	06:18		19:42 (SAM_WT05)	05:35		20:50 (KLZ_WT23)
	16:49			17:36			18:26			20:18	20	19:52 (CBR_WT01)	21:08	17	19:59 (SAM_WT05)	21:51	21	21:19 (SAM_WT07)
3	08:49			08:21			07:28			07:19		19:31 (CBR_WT01)	06:16		19:44 (SAM_WT05)	05:35		20:51 (KLZ_WT23)
	16:50			17:38			18:28			20:20	21	19:52 (CBR_WT01)	21:09	12	19:56 (SAM_WT05)	21:52	22	21:21 (SAM_WT07)
4	08:49			08:19			07:26			07:16		19:31 (CBR_WT01)	06:14			05:34		20:52 (KLZ_WT23)
	16:51			17:40			18:30			20:22	22	19:53 (CBR_WT01)	21:11			21:53	21	21:21 (SAM_WT07)
5	08:49			08:18		17:12 (ALB_WT01)	07:23			07:14		19:30 (CBR_WT01)	06:13			05:33		20:54 (KLZ_WT23)
	16:52			17:42	1	17:13 (ALB_WT01)	18:32			20:23	22	19:52 (CBR_WT01)	21:12			21:54	20	21:23 (SAM_WT07)
6	08:48			08:16		17:12 (ALB_WT01)	07:21			07:12		19:30 (CBR_WT01)	06:11			05:33		21:07 (SAM_WT07)
	16:54			17:43	3	17:15 (ALB_WT01)	18:33			20:25	21	19:51 (CBR_WT01)	21:14			21:55	16	21:23 (SAM_WT07)
7	08:48			08:14		17:13 (ALB_WT01)	07:19			07:10		19:30 (CBR_WT01)	06:09			05:32		21:07 (SAM_WT07)
	16:55			17:45	4	17:17 (ALB_WT01)	18:35			20:27	21	19:51 (CBR_WT01)	21:16			21:56	17	21:24 (SAM_WT07)
8	08:48			08:13			07:17			07:08		19:31 (CBR_WT01)	06:07			05:32		21:06 (SAM_WT07)
	16:56			17:47			18:37			20:28	19	19:50 (CBR_WT01)	21:17			21:57	18	21:24 (SAM_WT07)
9	08:47			08:11			07:15			07:05		19:32 (CBR_WT01)	06:06			05:31		21:07 (SAM_WT07)
	16:57			17:49			18:38			20:30	25	19:59 (SAM_WT05)	21:19			21:58	19	21:26 (SAM_WT07)
10	08:47			08:09			07:13			07:03		19:33 (CBR_WT01)	06:04			05:31		21:07 (SAM_WT07)
	16:59			17:51			18:40			20:32	30	20:03 (SAM_WT05)	21:20			21:59	20	21:27 (SAM_WT07)
11	08:46			08:07			07:10			07:01		19:34 (CBR_WT01)	06:02			05:30		21:06 (SAM_WT07)
	17:00			17:53			18:42			20:33	30	20:04 (SAM_WT05)	21:22			21:59	21	21:27 (SAM_WT07)
12	08:46		16:27 (RHR_WT01)	08:06			07:08			06:59		19:41 (SAM_WT05)	06:01			05:30		21:06 (SAM_WT07)
	17:02	1	16:28 (RHR_WT01)	17:54			18:43			20:35	25	20:06 (SAM_WT05)	21:23			22:00	21	21:27 (SAM_WT07)
13	08:45		16:26 (RHR_WT01)	08:04			07:06			06:57		19:40 (SAM_WT05)	05:59		20:50 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:03	4	16:30 (RHR_WT01)	17:56			18:45			20:37	27	20:07 (SAM_WT05)	21:25	6	20:56 (KLZ_WT23)	22:01	21	21:28 (SAM_WT07)
14	08:44		16:28 (RHR_WT01)	08:02			07:04			06:54		19:39 (SAM_WT05)	05:58		20:48 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:04	4	16:32 (RHR_WT01)	17:58			18:47			20:38	29	20:08 (SAM_WT05)	21:26	9	20:57 (KLZ_WT23)	22:01	22	21:29 (SAM_WT07)
15	08:44		16:28 (RHR_WT01)	08:00			07:01			06:52		19:38 (SAM_WT05)	05:56		20:47 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:06	6	16:34 (RHR_WT01)	18:00			18:49			20:40	31	20:09 (SAM_WT05)	21:28	12	20:59 (KLZ_WT23)	22:02	22	21:29 (SAM_WT07)
16	08:43		16:28 (RHR_WT01)	07:58		17:32 (MXS_WT01)	06:59			06:50		19:37 (SAM_WT05)	05:55		20:46 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:08	8	16:36 (RHR_WT01)	18:02	2	17:34 (MXS_WT01)	18:50			20:42	32	20:09 (SAM_WT05)	21:29	13	20:59 (KLZ_WT23)	22:02	23	21:30 (SAM_WT07)
17	08:42		16:28 (RHR_WT01)	07:56		17:32 (MXS_WT01)	06:57			06:48		19:36 (SAM_WT05)	05:53		20:45 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:09	9	16:37 (RHR_WT01)	18:03	4	17:36 (MXS_WT01)	18:52			20:43	33	20:09 (SAM_WT05)	21:31	16	21:01 (KLZ_WT23)	22:03	23	21:30 (SAM_WT07)
18	08:41		16:29 (RHR_WT01)	07:54		17:33 (MXS_WT01)	06:55			06:46		19:36 (SAM_WT05)	05:52		20:45 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:11	10	16:39 (RHR_WT01)	18:05	5	17:38 (MXS_WT01)	18:54			20:45	34	20:10 (SAM_WT05)	21:32	17	21:02 (KLZ_WT23)	22:03	23	21:30 (SAM_WT07)
19	08:40		16:30 (RHR_WT01)	07:52		17:34 (MXS_WT01)	06:52			06:44		19:35 (SAM_WT05)	05:51		20:45 (KLZ_WT23)	05:29		21:08 (SAM_WT07)
	17:12	11	16:41 (RHR_WT01)	18:07	6	17:40 (MXS_WT01)	18:55			20:46	35	20:10 (SAM_WT05)	21:34	18	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
20	08:39		16:29 (RHR_WT01)	07:50			06:50			06:42		19:35 (SAM_WT05)	05:49		20:44 (KLZ_WT23)	05:29		21:08 (SAM_WT07)
	17:14	13	16:42 (RHR_WT01)	18:09			18:57			20:48	35	20:10 (SAM_WT05)	21:35	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
21	08:38		16:31 (RHR_WT01)	07:48			06:48			06:40		19:35 (SAM_WT05)	05:48		20:44 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:16	13	16:44 (RHR_WT01)	18:10			18:59			20:50	34	20:09 (SAM_WT05)	21:37	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
22	08:37		16:32 (RHR_WT01)	07:46			06:46			06:38		19:35 (SAM_WT05)	05:47		20:44 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:17	12	16:44 (RHR_WT01)	18:12			19:00			20:51	34	20:09 (SAM_WT05)	21:38	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
23	08:36		16:33 (RHR_WT01)	07:44			06:43			06:36		19:35 (SAM_WT05)	05:45		20:45 (KLZ_WT23)	05:30		21:09 (SAM_WT07)
	17:19	11	16:44 (RHR_WT01)	18:14			19:02			20:53	34	20:09 (SAM_WT05)	21:39	19	21:04 (KLZ_WT23)	22:05	22	21:31 (SAM_WT07)
24	08:35		16:35 (RHR_WT01)	07:42			06:41			06:34		19:35 (SAM_WT05)	05:44		20:45 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:21	8	16:49 (RHR_WT03)	18:16			19:04			20:55	33	20:08 (SAM_WT05)	21:41	19	21:04 (KLZ_WT23)	22:05	23	21:31 (SAM_WT07)
25	08:33		16:49 (RHR_WT03)	07:40			06:39		18:38 (KLZ_WT11)	06:32		19:35 (SAM_WT05)	05:43		20:45 (KLZ_WT23)	05:31		21:08 (SAM_WT07)
	17:22	3	16:52 (RHR_WT03)	18:18			19:05	2	18:40 (KLZ_WT11)	20:56	32	20:07 (SAM_WT05)	21:42	18	21:03 (KLZ_WT23)	22:05	23	21:31 (SAM_WT07)
26	08:32		16:50 (RHR_WT03)	07:38			06:37		18:40 (KLZ_WT11)	06:30		19:35 (SAM_WT05)	05:42		20:45 (KLZ_WT23)	05:31		21:09 (SAM_WT07)
	17:24	4	16:54 (RHR_WT03)	18:19			19:07	2	18:42 (KLZ_WT11)	20:58	32	20:07 (SAM_WT05)	21:43	18	21:03 (KLZ_WT23)	22:05	23	21:32 (SAM_WT07)
27	08:31		16:50 (RHR_WT03)	07:36			06:34			06:28		19:36 (SAM_WT05)	05:41		20:46 (KLZ_WT23)	05:31		21:09 (SAM_WT07)
	17:26	5	16:55 (RHR_WT03)	18:21			19:09			21:00	30	20:06 (SAM_WT05)	21:44	17	21:03 (KLZ_WT23)	22:05	22	21:31 (SAM_WT07)
28	08:29		16:51 (RHR_WT03)	07:34			06:32			06:26		19:36 (SAM_WT05)	05:40		20:46 (KLZ_WT23)	05:32		21:10 (SAM_WT07)
	17:27	7	16:58 (RHR_WT03)	18:23			19:10			21:01	28	20:04 (SAM_WT05)	21:46	17	21:03 (KLZ_WT23)	22:05	22	21:32 (SAM_WT07)
29	08:28		16:52 (RHR_WT03)				07:30		19:41 (CBR_WT01)	06:24		19:37 (SAM_WT05)	05:39		20:47 (KLZ_WT23)	05:32		21:10 (SAM_WT07)
	17:29	7	16:59 (RHR_WT03)				20:12	5	19:46 (CBR_WT01)	21:03	26	20:03 (SAM_WT05)	21:47	15	21:02 (KLZ_WT23)	22:04	21	21:31 (SAM_WT07)
30	08:27		16:55 (RHR_WT03)				07:28		19:37 (CBR_WT01)	06:22		19:39 (SAM_WT05)	05:38		20:48 (KLZ_WT23)	05:33		21:10 (SAM_WT07)
	17:31	4	16:59 (RHR_WT03)				20:14	12	19:49 (CBR_WT01)	21:04	24	20:03 (SAM_WT05)	21:48	20	21:17 (SAM_WT07)	22:04	22	21:32 (SAM_WT07)
31	08:25						07:25		19:35 (CBR_WT01)				05:37		20:48 (KLZ_WT23)			
	17:33						20:15	15	19:50 (CBR_WT01)				21:49	22	21:18 (SAM_WT07)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		140			25			36			837			362			638	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,69			0,61			0,59			0,56			0,55	
Total reduction		0,17			0,20			0,23			0,27			0,25			0,24	
Total, real		24			5			8			223			90			152	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		21:10 (SAM_WT07)	06:09			06:57		19:33 (CBR_WT01)	07:44			07:36			08:26		
	22:04	21	21:31 (SAM_WT07)	21:33			20:33	30	20:03 (SAM_WT05)	19:25			17:21			16:42		
2	05:34		21:11 (SAM_WT07)	06:10			06:58		19:31 (CBR_WT01)	07:46			07:38			08:27		
	22:04	20	21:31 (SAM_WT07)	21:32			20:31	30	20:01 (SAM_WT05)	19:23			17:19			16:41		
3	05:35		21:12 (SAM_WT07)	06:12			07:00		19:30 (CBR_WT01)	07:47			07:40		16:45 (ALB_WT01)	08:29		
	22:03	19	21:31 (SAM_WT07)	21:30			20:29	25	19:57 (SAM_WT05)	19:21			17:17	2	16:47 (ALB_WT01)	16:41		
4	05:36		21:12 (SAM_WT07)	06:13			07:02		19:28 (CBR_WT01)	07:49			07:42		16:43 (ALB_WT01)	08:30		
	22:03	19	21:31 (SAM_WT07)	21:28			20:26	19	19:47 (CBR_WT01)	19:18			17:16	3	16:46 (ALB_WT01)	16:40		
5	05:37		21:12 (SAM_WT07)	06:15			07:03		19:27 (CBR_WT01)	07:51			07:43		16:42 (ALB_WT01)	08:31		
	22:02	18	21:30 (SAM_WT07)	21:27			20:24	21	19:48 (CBR_WT01)	19:16			17:14	2	16:44 (ALB_WT01)	16:40		
6	05:37		21:13 (SAM_WT07)	06:16			07:05		19:26 (CBR_WT01)	07:52			07:45		16:42 (ALB_WT01)	08:32		
	22:02	17	21:30 (SAM_WT07)	21:25			20:22	21	19:47 (CBR_WT01)	19:14			17:12	1	16:43 (ALB_WT01)	16:39		
7	05:38		21:14 (SAM_WT07)	06:18			07:06		19:26 (CBR_WT01)	07:54			07:47			08:34		
	22:01	15	21:29 (SAM_WT07)	21:23			20:20	22	19:48 (CBR_WT01)	19:12			17:10			16:39		
8	05:39		21:00 (KLZ_WT23)	06:19			07:08		19:25 (CBR_WT01)	07:56			07:49			08:35		
	22:01	21	21:29 (SAM_WT07)	21:22			20:17	22	19:47 (CBR_WT01)	19:10			17:09			16:39		
9	05:40		20:59 (KLZ_WT23)	06:21		19:57 (SAM_WT05)	07:09		19:26 (CBR_WT01)	07:57			07:50			08:36		
	22:00	21	21:28 (SAM_WT07)	21:20	4	20:01 (SAM_WT05)	20:15	21	19:47 (CBR_WT01)	19:07			17:07			16:38		
10	05:41		20:58 (KLZ_WT23)	06:23		19:53 (SAM_WT05)	07:11		19:25 (CBR_WT01)	07:59			07:52			08:37		
	21:59	22	21:28 (SAM_WT07)	21:18	13	20:06 (SAM_WT05)	20:13	20	19:45 (CBR_WT01)	19:05			17:06			16:38		
11	05:42		20:58 (KLZ_WT23)	06:24		19:50 (SAM_WT05)	07:13		19:26 (CBR_WT01)	08:01			07:54			08:38		
	21:59	21	21:27 (SAM_WT07)	21:16	18	20:08 (SAM_WT05)	20:11	18	19:44 (CBR_WT01)	19:03			17:04			16:38		
12	05:43		20:57 (KLZ_WT23)	06:26		19:49 (SAM_WT05)	07:14		19:26 (CBR_WT01)	08:02			07:55		16:26 (RHR_WT03)	08:39		
	21:58	22	21:27 (SAM_WT07)	21:14	21	20:10 (SAM_WT05)	20:08	16	19:42 (CBR_WT01)	19:01			17:03	4	16:30 (RHR_WT03)	16:38		
13	05:44		20:57 (KLZ_WT23)	06:27		19:46 (SAM_WT05)	07:16		19:28 (CBR_WT01)	08:04			07:57		16:24 (RHR_WT03)	08:40		
	21:57	20	21:26 (SAM_WT07)	21:12	24	20:10 (SAM_WT05)	20:06	12	19:40 (CBR_WT01)	18:59			17:01	7	16:31 (RHR_WT03)	16:38		
14	05:45		20:56 (KLZ_WT23)	06:29		19:46 (SAM_WT05)	07:17		19:30 (CBR_WT01)	08:06			07:59		16:23 (RHR_WT03)	08:41		
	21:56	17	21:25 (SAM_WT07)	21:10	26	20:12 (SAM_WT05)	20:04	7	19:37 (CBR_WT01)	18:57			17:00	6	16:29 (RHR_WT03)	16:38		
15	05:46		20:56 (KLZ_WT23)	06:30		19:44 (SAM_WT05)	07:19			08:07			08:01		16:23 (RHR_WT03)	08:42		
	21:55	16	21:12 (KLZ_WT23)	21:08	28	20:12 (SAM_WT05)	20:02			18:54			16:58	5	16:28 (RHR_WT03)	16:38		
16	05:47		20:55 (KLZ_WT23)	06:32		19:43 (SAM_WT05)	07:20			08:09			08:02		16:23 (RHR_WT03)	08:43		
	21:54	17	21:12 (KLZ_WT23)	21:07	30	20:13 (SAM_WT05)	19:59			18:52			16:57	4	16:27 (RHR_WT03)	16:38		
17	05:49		20:55 (KLZ_WT23)	06:33		19:42 (SAM_WT05)	07:22		19:28 (KLZ_WT11)	08:11			08:04		16:22 (RHR_WT03)	08:44		
	21:53	18	21:13 (KLZ_WT23)	21:05	31	20:13 (SAM_WT05)	19:57	3	19:31 (KLZ_WT11)	18:50			16:56	2	16:24 (RHR_WT03)	16:38		
18	05:50		20:55 (KLZ_WT23)	06:35		19:42 (SAM_WT05)	07:24		19:26 (KLZ_WT11)	08:12			08:06		16:09 (RHR_WT01)	08:44		15:52 (RHR_WT02)
	21:52	18	21:13 (KLZ_WT23)	21:03	32	20:14 (SAM_WT05)	19:55	2	19:28 (KLZ_WT11)	18:48			16:54	8	16:23 (RHR_WT03)	16:39	2	15:54 (RHR_WT02)
19	05:51		20:54 (KLZ_WT23)	06:37		19:40 (SAM_WT05)	07:25		19:25 (KLZ_WT11)	08:14			08:07		16:07 (RHR_WT01)	08:45		15:53 (RHR_WT02)
	21:51	19	21:13 (KLZ_WT23)	21:01	34	20:14 (SAM_WT05)	19:53	1	19:26 (KLZ_WT11)	18:46			16:53	11	16:18 (RHR_WT01)	16:39	2	15:55 (RHR_WT02)
20	05:52		20:54 (KLZ_WT23)	06:38		19:40 (SAM_WT05)	07:27			08:16			08:09		16:07 (RHR_WT01)	08:46		15:52 (RHR_WT02)
	21:50	19	21:13 (KLZ_WT23)	20:59	34	20:14 (SAM_WT05)	19:50			18:44			16:52	12	16:19 (RHR_WT01)	16:39	4	15:56 (RHR_WT02)
21	05:54		20:55 (KLZ_WT23)	06:40		19:39 (SAM_WT05)	07:28			08:17			08:11		16:07 (RHR_WT01)	08:46		15:53 (RHR_WT02)
	21:49	19	21:14 (KLZ_WT23)	20:56	35	20:14 (SAM_WT05)	19:48			18:42			16:51	13	16:20 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
22	05:55		20:55 (KLZ_WT23)	06:41		19:39 (SAM_WT05)	07:30			08:19		18:07 (MXS_WT01)	08:12		16:06 (RHR_WT01)	08:47		15:53 (RHR_WT02)
	21:48	19	21:14 (KLZ_WT23)	20:54	35	20:14 (SAM_WT05)	19:46			18:40	3	18:10 (MXS_WT01)	16:50	12	16:18 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
23	05:56		20:55 (KLZ_WT23)	06:43		19:39 (SAM_WT05)	07:31			08:21		18:04 (MXS_WT01)	08:14		16:06 (RHR_WT01)	08:47		15:54 (RHR_WT02)
	21:46	19	21:14 (KLZ_WT23)	20:52	34	20:13 (SAM_WT05)	19:43			18:38	6	18:10 (MXS_WT01)	16:49	11	16:17 (RHR_WT01)	16:41	4	15:58 (RHR_WT02)
24	05:58		20:55 (KLZ_WT23)	06:44		19:39 (SAM_WT05)	07:33			08:22		18:03 (MXS_WT01)	08:15		16:06 (RHR_WT01)	08:48		15:54 (RHR_WT02)
	21:45	18	21:13 (KLZ_WT23)	20:50	34	20:13 (SAM_WT05)	19:41			18:36	5	18:08 (MXS_WT01)	16:48	10	16:16 (RHR_WT01)	16:41	3	15:57 (RHR_WT02)
25	05:59		20:56 (KLZ_WT23)	06:46		19:38 (SAM_WT05)	07:35			07:24		17:02 (MXS_WT01)	08:17		16:06 (RHR_WT01)	08:48		15:55 (RHR_WT02)
	21:44	18	21:14 (KLZ_WT23)	20:48	34	20:12 (SAM_WT05)	19:39			17:34	3	17:05 (MXS_WT01)	16:47	9	16:15 (RHR_WT01)	16:42	2	15:57 (RHR_WT02)
26	06:00		20:56 (KLZ_WT23)	06:47		19:39 (SAM_WT05)	07:36			07:26		17:01 (MXS_WT01)	08:18		16:06 (RHR_WT01)	08:49		
	21:42	16	21:12 (KLZ_WT23)	20:46	33	20:12 (SAM_WT05)	19:37			17:32	2	17:03 (MXS_WT01)	16:46	8	16:14 (RHR_WT01)	16:43		
27	06:02		20:56 (KLZ_WT23)	06:49		19:39 (SAM_WT05)	07:38			07:28			08:20		16:07 (RHR_WT01)	08:49		
	21:41	15	21:11 (KLZ_WT23)	20:44	32	20:11 (SAM_WT05)	19:34			17:30			16:45	6	16:13 (RHR_WT01)	16:43		
28	06:03		20:57 (KLZ_WT23)	06:51		19:39 (SAM_WT05)	07:39			07:29			08:21		16:07 (RHR_WT01)	08:49		
	21:39	13	21:10 (KLZ_WT23)	20:42	30	20:09 (SAM_WT05)	19:32			17:28			16:44	5	16:12 (RHR_WT01)	16:44		
29	06:05		20:58 (KLZ_WT23)	06:52		19:40 (SAM_WT05)	07:41			07:31			08:23		16:08 (RHR_WT01)	08:49		
	21:38	10	21:08 (KLZ_WT23)	20:40	29	20:09 (SAM_WT05)	19:30			17:26			16:43	3	16:11 (RHR_WT01)	16:45		
30	06:06		20:59 (KLZ_WT23)	06:54		19:40 (SAM_WT05)	07:43			07:33			08:24		16:09 (RHR_WT01)	08:49		
	21:37	8	21:07 (KLZ_WT23)	20:37	27	20:07 (SAM_WT05)	19:27			17:24			16:43	2	16:11 (RHR_WT01)	16:46		
31	06:07		21:01 (KLZ_WT23)	06:55		19:38 (CBR_WT01)				07:35						08:49		
	21:35	5	21:06 (KLZ_WT23)	20:35	26	20:05 (SAM_WT05)				17:23						16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case	540			644			290			19			146			25		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,55			0,58			0,61			0,68			0,71			0,72		
Total reduction	0,24			0,27			0,26			0,24			0,19			0,16		
Total, real	131			171			74			5			27			4		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21			06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19			21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21			07:28			07:19			06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38			18:28			20:20			21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19			07:26			07:17			06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40			18:30			20:22			21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18			07:24			07:14			06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42			18:32			20:24			21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16			07:21			07:12			06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44			18:33			20:25			21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14			07:19			07:10			06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45			18:35			20:27			21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		20:01 (KLZ_WT15)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	2	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		20:01 (KLZ_WT15)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	4	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		20:02 (KLZ_WT15)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	4	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		20:03 (KLZ_WT15)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	5	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		20:04 (KLZ_WT15)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	3	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57			05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37			21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55			05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38			21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52			05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40			21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50			05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42			21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48			05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43			21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46			05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45			21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44			05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47			21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	302			7			138			56			763			1138		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,54			0,54			0,63			0,64			0,67			0,58		
Total reduction	0,13			0,16			0,23			0,29			0,30			0,25		
Total, real	39			1			32			16			227			286		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		20:01 (KLZ_WT15)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	6	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		20:00 (KLZ_WT15)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	4	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:59 (KLZ_WT15)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	4	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:58 (KLZ_WT15)	07:49	07:42			08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	2	20:00 (KLZ_WT15)	19:19	17:16			16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03			07:51	07:43			08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24			19:16	17:14			16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05			07:52	07:45			08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22			19:14	17:12			16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06			07:54	07:47			08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20			19:12	17:11			16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08			07:56	07:49			08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18			19:10	17:09			16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10			07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15			19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11			07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13			19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44			07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50			19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46			07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48			19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48			07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46			19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49			07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44			19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51			07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42			19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52			07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40			19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54			07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38			19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		20:04 (KLZ_WT15)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	3	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			363			156				312		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,97			0,97			0,97				0,97		
Wind dir. red.		0,62			0,67			0,62				0,54		
Total reduction		0,27			0,31			0,26				0,14		
Total, real		221			111			41				44		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	29	09:28 (RHR_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	34	06:40 (CBR_WT01)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	29	09:27 (RHR_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	34	06:41 (CBR_WT01)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	28	09:26 (RHR_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	34	06:40 (CBR_WT01)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	25	09:25 (RHR_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	36	06:40 (CBR_WT01)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	17	09:22 (RHR_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	36	06:41 (CBR_WT01)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	4	08:53 (MVZ_WT02)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	37	06:41 (CBR_WT01)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	37	06:41 (CBR_WT01)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	37	06:42 (CBR_WT01)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	36	06:41 (CBR_WT01)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	38	06:42 (CBR_WT01)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	37	06:42 (CBR_WT01)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	36	06:41 (CBR_WT01)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	37	06:42 (CBR_WT01)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	35	06:42 (CBR_WT01)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	35	06:42 (CBR_WT01)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	35	06:43 (CBR_WT01)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	34	06:43 (CBR_WT01)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	33	06:43 (CBR_WT01)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	33	06:44 (CBR_WT01)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	33	06:45 (CBR_WT01)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	24	06:37 (CBR_WT01)	22:05	34	06:45 (CBR_WT01)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	26	06:38 (CBR_WT01)	22:05	34	06:44 (CBR_WT01)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	27	09:30 (RHR_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	28	06:38 (CBR_WT01)	22:05	35	06:45 (CBR_WT01)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	27	09:29 (RHR_WT01)				20:12			21:03			21:47	29	06:39 (CBR_WT01)	22:05	35	06:46 (CBR_WT01)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	27	09:29 (RHR_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	31	06:40 (CBR_WT01)	22:04	37	06:46 (CBR_WT01)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	28	09:28 (RHR_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	32	06:40 (CBR_WT01)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		559			284			328			86			595			1047	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,55			0,55			0,61			0,67			0,70	
Total reduction		0,13			0,16			0,20			0,28			0,30			0,30	
Total, real		73			46			67			24			176			317	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	37	06:46 (CBR_WT01)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MVN_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	38	06:46 (CBR_WT01)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MVN_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	37	06:46 (CBR_WT01)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MVN_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42			08:30		09:21 (RHR_WT02)
	22:03	37	06:47 (CBR_WT01)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MVN_WT01)	17:16			16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	36	06:46 (CBR_WT01)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MVN_WT01)	17:14	5	08:23 (MVZ_WT02)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	37	06:47 (CBR_WT01)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MVN_WT01)	17:12	18	08:52 (RHR_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	36	06:47 (CBR_WT01)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MVN_WT01)	17:11	25	08:55 (RHR_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	35	06:47 (CBR_WT01)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	28	08:57 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	29	08:58 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	29	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	33	06:48 (CBR_WT01)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	28	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	32	06:48 (CBR_WT01)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	28	09:00 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	32	06:48 (CBR_WT01)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	26	09:01 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	31	06:48 (CBR_WT01)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	26	09:01 (RHR_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	29	06:48 (CBR_WT01)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	27	06:48 (CBR_WT01)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	25	06:47 (CBR_WT01)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	23	06:47 (CBR_WT01)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		791			222			109			468			526			582	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,64			0,60			0,55			0,54			0,54	
Total reduction		0,30			0,29			0,25			0,20			0,14			0,12	
Total, real		239			65			28			91			74			69	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:16 (KLZ_WT10)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	40	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:17 (KLZ_WT10)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	40	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:16 (KLZ_WT10)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	41	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:16 (KLZ_WT10)
	16:51	39	10:21 (ALB_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	42	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:17 (KLZ_WT10)
	16:53	35	10:20 (ALB_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	41	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:36 (KLZ_WT11)	05:33		06:17 (KLZ_WT10)
	16:54	33	10:19 (ALB_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	23	07:00 (CBR_WT01)	21:56	40	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:34 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:55	27	10:17 (ALB_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	26	07:00 (CBR_WT01)	21:56	41	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:32 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:56	25	09:51 (RHR_WT03)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	27	06:59 (CBR_WT01)	21:57	42	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:31 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:58	25	09:52 (RHR_WT03)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	28	06:59 (CBR_WT01)	21:58	43	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:59	24	09:51 (RHR_WT03)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	29	06:58 (CBR_WT01)	21:59	43	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	17:00	24	09:51 (RHR_WT03)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	29	06:58 (CBR_WT01)	22:00	42	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	26	09:51 (RHR_WT03)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	29	06:56 (CBR_WT01)	22:00	43	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	26	09:52 (RHR_WT03)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	29	06:56 (CBR_WT01)	22:01	44	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	27	09:52 (RHR_WT03)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	25	06:53 (CBR_WT01)	22:01	43	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	28	09:51 (RHR_WT03)	18:00			18:49			20:40			21:28	20	06:51 (CBR_WT01)	22:02	42	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	28	09:51 (RHR_WT03)	18:02			18:50			20:42			21:30	15	06:40 (KLZ_WT11)	22:03	44	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	27	09:50 (RHR_WT03)	18:04			18:52			20:43			21:31	15	06:39 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	26	09:49 (RHR_WT03)	18:05			18:54			20:45			21:33	11	06:37 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	25	09:48 (RHR_WT03)	18:07			18:55			20:47			21:34	12	06:29 (KLZ_WT10)	22:04	42	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	21	09:46 (RHR_WT03)	18:09			18:57			20:48			21:35	10	06:30 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	16	09:21 (RHR_WT02)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	13	06:32 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	16	09:21 (RHR_WT02)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	18	21:07 (KLZ_WT15)	22:05	43	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:19	16	09:22 (RHR_WT02)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	22	21:09 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	14	09:20 (RHR_WT02)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	26	21:10 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	28	21:11 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	30	21:12 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	33	21:13 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	34	21:14 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	36	21:16 (KLZ_WT15)	22:05	43	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	37	21:17 (KLZ_WT15)	22:04	43	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:16 (KLZ_WT10)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	38	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	685			250			158			316			732			1266		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,54			0,55			0,57			0,62			0,66			0,62		
Total reduction	0,13			0,16			0,21			0,28			0,30			0,27		
Total, real	89			41			33			89			216			341		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:38 (KLZ_WT11)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	43	21:27 (KLZ_WT15)	21:34	29	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	24	09:33 (RHR_WT03)
2	05:35		06:04 (SAM_WT07)	06:11		06:39 (KLZ_WT11)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	43	21:27 (KLZ_WT15)	21:32	29	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	24	09:34 (RHR_WT03)
3	05:35		06:05 (SAM_WT07)	06:12		06:40 (KLZ_WT11)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	41	21:27 (KLZ_WT15)	21:30	29	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	25	09:35 (RHR_WT03)
4	05:36		06:06 (SAM_WT07)	06:14		06:41 (KLZ_WT11)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	42	21:28 (KLZ_WT15)	21:29	28	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
5	05:37		06:07 (SAM_WT07)	06:15		06:43 (KLZ_WT11)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	41	21:28 (KLZ_WT15)	21:27	26	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
6	05:38		06:23 (KLZ_WT10)	06:17		06:44 (KLZ_WT11)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:25	25	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	32	10:05 (ALB_WT01)
7	05:38		06:24 (KLZ_WT10)	06:18		06:46 (KLZ_WT11)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:24	21	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	35	10:07 (ALB_WT01)
8	05:39		06:24 (KLZ_WT10)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	40	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	38	10:09 (ALB_WT01)
9	05:40		06:24 (KLZ_WT10)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:24 (KLZ_WT10)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:24 (KLZ_WT10)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	39	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:24 (KLZ_WT10)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	40	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:24 (KLZ_WT10)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	39	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:24 (KLZ_WT10)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	37	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:25 (KLZ_WT10)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	35	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:25 (KLZ_WT10)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	33	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:25 (KLZ_WT10)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	32	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	29	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	14	08:54 (RHR_WT02)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	28	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	16	08:56 (RHR_WT02)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	24	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	16	08:56 (RHR_WT02)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	21	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	16	08:57 (RHR_WT02)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	16	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	21	09:22 (RHR_WT03)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	12	06:41 (KLZ_WT10)	20:53			19:44			18:38			16:49	25	09:24 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	11	06:40 (KLZ_WT10)	20:50			19:41			18:36			16:48	26	09:26 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	11	06:46 (KLZ_WT11)	20:48			19:39			17:34			16:47	27	09:28 (RHR_WT03)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	13	06:49 (KLZ_WT11)	20:46			19:37			17:32			16:46	27	09:29 (RHR_WT03)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	16	06:50 (KLZ_WT11)	20:44			19:34			17:30			16:45	27	09:30 (RHR_WT03)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	16	06:51 (KLZ_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	24	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	29	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	26	09:33 (RHR_WT03)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	29	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		948			362			263			245			462			1235	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,64			0,67			0,61			0,56			0,54			0,54	
Total reduction		0,28			0,30			0,26			0,20			0,14			0,12	
Total, real		265			110			68			49			65			147	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (ATS_WT01)	08:24			07:32		07:59 (ALB_WT01)	07:23			06:20		06:48 (KLZ_WT16)	05:37		06:04 (KLZ_WT23)
	16:48	8	09:40 (ATS_WT01)	17:35			18:25	5	08:04 (ALB_WT01)	20:17			21:06	12	07:00 (KLZ_WT16)	21:51	38	07:07 (KLZ_WT16)
2	08:50		09:33 (ATS_WT01)	08:23			07:30			07:21			06:18		06:45 (KLZ_WT16)	05:36		06:06 (KLZ_WT23)
	16:49	7	09:40 (ATS_WT01)	17:37			18:27			20:19			21:08	18	07:03 (KLZ_WT16)	21:52	36	07:07 (KLZ_WT16)
3	08:49		09:35 (ATS_WT01)	08:21			07:28			07:19			06:17		06:44 (KLZ_WT16)	05:35		06:06 (KLZ_WT23)
	16:50	4	09:39 (ATS_WT01)	17:38			18:28			20:20			21:10	21	07:05 (KLZ_WT16)	21:53	34	07:06 (KLZ_WT16)
4	08:49			08:19			07:26			07:17			06:15		06:42 (KLZ_WT16)	05:34		06:07 (KLZ_WT23)
	16:52			17:40			18:30			20:22			21:11	24	07:06 (KLZ_WT16)	21:54	32	07:07 (KLZ_WT16)
5	08:49			08:18			07:24			07:14			06:13		06:40 (KLZ_WT16)	05:34		06:07 (KLZ_WT23)
	16:53			17:42			18:32			20:24			21:13	27	07:07 (KLZ_WT16)	21:55	30	07:06 (KLZ_WT16)
6	08:49			08:16			07:22		07:44 (RHR_WT01)	07:12			06:11		06:40 (KLZ_WT16)	05:33		06:09 (KLZ_WT23)
	16:54			17:44			18:34	1	07:45 (RHR_WT01)	20:25			21:14	28	07:08 (KLZ_WT16)	21:56	27	07:06 (KLZ_WT16)
7	08:48			08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		06:34 (SAM_WT07)	05:33		06:09 (KLZ_WT23)
	16:55			17:46			18:35	2	07:44 (RHR_WT01)	20:27			21:16	32	07:09 (KLZ_WT16)	21:56	25	07:05 (KLZ_WT16)
8	08:48			08:13			07:17		07:40 (RHR_WT01)	07:08			06:08		06:32 (SAM_WT07)	05:32		06:45 (KLZ_WT16)
	16:56			17:47			18:37	2	07:42 (RHR_WT01)	20:29			21:18	33	07:09 (KLZ_WT16)	21:57	20	07:05 (KLZ_WT16)
9	08:48			08:11			07:15			07:06			06:06		06:37 (KLZ_WT16)	05:32		06:46 (KLZ_WT16)
	16:58			17:49			18:39			20:30			21:19	33	07:10 (KLZ_WT16)	21:58	18	07:04 (KLZ_WT16)
10	08:47			08:09			07:13			07:03			06:04		06:36 (KLZ_WT16)	05:31		06:47 (KLZ_WT16)
	16:59			17:51			18:40			20:32			21:21	34	07:10 (KLZ_WT16)	21:59	17	07:04 (KLZ_WT16)
11	08:46			08:08			07:11			07:01			06:03		06:36 (KLZ_WT16)	05:31		06:48 (KLZ_WT16)
	17:00			17:53			18:42			20:34			21:22	35	07:11 (KLZ_WT16)	22:00	16	07:04 (KLZ_WT16)
12	08:46			08:06			07:08		07:31 (MVN_WT01)	06:59			06:01		06:35 (KLZ_WT16)	05:30		06:49 (KLZ_WT16)
	17:02			17:55			18:44	1	07:32 (MVN_WT01)	20:35			21:24	36	07:11 (KLZ_WT16)	22:00	14	07:03 (KLZ_WT16)
13	08:45			08:04			07:06			06:57			06:00		06:35 (KLZ_WT16)	05:30		06:49 (KLZ_WT16)
	17:03			17:56			18:45			20:37			21:25	36	07:11 (KLZ_WT16)	22:01	13	07:02 (KLZ_WT16)
14	08:45			08:02			07:04			06:55			05:58		06:34 (KLZ_WT16)	05:30		06:50 (KLZ_WT16)
	17:05			17:58			18:47			20:39			21:27	37	07:11 (KLZ_WT16)	22:02	12	07:02 (KLZ_WT16)
15	08:44			08:00			07:02			06:53			05:57		06:34 (KLZ_WT16)	05:30		06:50 (KLZ_WT16)
	17:06			18:00			18:49			20:40			21:28	37	07:11 (KLZ_WT16)	22:02	12	07:02 (KLZ_WT16)
16	08:43			07:58			06:59			06:50		07:13 (KLZ_WT08)	05:55		06:35 (KLZ_WT16)	05:30		06:51 (KLZ_WT16)
	17:08			18:02			18:51			20:42	2	07:15 (KLZ_WT08)	21:30	37	07:12 (KLZ_WT16)	22:03	10	07:01 (KLZ_WT16)
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT08)	05:54		06:34 (KLZ_WT16)	05:30		06:52 (KLZ_WT16)
	17:09			18:04			18:52			20:43	4	07:15 (KLZ_WT08)	21:31	37	07:11 (KLZ_WT16)	22:03	9	07:01 (KLZ_WT16)
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT08)	05:52		06:34 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:11			18:05			18:54			20:45	5	07:14 (KLZ_WT08)	21:33	37	07:11 (KLZ_WT16)	22:03	8	07:01 (KLZ_WT16)
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT08)	05:51		06:35 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:13			18:07			18:56			20:47	6	07:13 (KLZ_WT08)	21:34	36	07:11 (KLZ_WT16)	22:04	7	07:00 (KLZ_WT16)
20	08:39			07:51			06:50			06:42		07:05 (CBR_WT01)	05:50		06:35 (KLZ_WT16)	05:30		06:53 (KLZ_WT16)
	17:14			18:09			18:57			20:48	6	07:11 (KLZ_WT08)	21:35	37	07:12 (KLZ_WT16)	22:04	7	07:00 (KLZ_WT16)
21	08:38			07:49			06:48			06:40			05:48		06:35 (KLZ_WT16)	05:30		06:54 (KLZ_WT16)
	17:16			18:11			18:59			20:50			21:37	37	07:12 (KLZ_WT16)	22:04	7	07:01 (KLZ_WT16)
22	08:37			07:47			06:46			06:38			05:47		06:35 (KLZ_WT16)	05:30		06:54 (KLZ_WT16)
	17:17			18:13			19:01			20:52			21:38	35	07:10 (KLZ_WT16)	22:05	7	07:01 (KLZ_WT16)
23	08:36			07:45			06:44			06:36			05:46		06:12 (KLZ_WT23)	05:30		06:54 (KLZ_WT16)
	17:19			18:14			19:02			20:53			21:40	37	07:10 (KLZ_WT16)	22:05	7	07:01 (KLZ_WT16)
24	08:35			07:43		08:06 (ALB_WT01)	06:41			06:34			05:45		06:11 (KLZ_WT23)	05:31		06:54 (KLZ_WT16)
	17:21			18:16	2	08:08 (ALB_WT01)	19:04			20:55			21:41	38	07:10 (KLZ_WT16)	22:05	8	07:02 (KLZ_WT16)
25	08:34			07:41		08:04 (ALB_WT01)	06:39			06:32			05:43		06:10 (KLZ_WT23)	05:31		06:54 (KLZ_WT16)
	17:23			18:18	4	08:08 (ALB_WT01)	19:06			20:57			21:42	39	07:10 (KLZ_WT16)	22:05	9	07:03 (KLZ_WT16)
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30			05:42		06:09 (KLZ_WT23)	05:31		06:54 (KLZ_WT16)
	17:24			18:20	6	08:08 (ALB_WT01)	19:07			20:58			21:43	39	07:09 (KLZ_WT16)	22:05	9	07:03 (KLZ_WT16)
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28			05:41		06:08 (KLZ_WT23)	05:32		06:54 (KLZ_WT16)
	17:26			18:21	8	08:08 (ALB_WT01)	19:09			21:00			21:45	40	07:09 (KLZ_WT16)	22:05	10	07:04 (KLZ_WT16)
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26			05:40		06:08 (KLZ_WT23)	05:32		06:53 (KLZ_WT16)
	17:28			18:23	9	08:06 (ALB_WT01)	19:11			21:01			21:46	40	07:10 (KLZ_WT16)	22:05	12	07:05 (KLZ_WT16)
29	08:28						07:30			06:24			05:39		06:07 (KLZ_WT23)	05:33		06:53 (KLZ_WT16)
	17:29						20:12			21:03			21:47	39	07:09 (KLZ_WT16)	22:05	13	07:06 (KLZ_WT16)
30	08:27						07:28			06:22			05:38		06:06 (KLZ_WT23)	05:33		06:52 (KLZ_WT16)
	17:31						20:14			21:05			21:48	39	07:08 (KLZ_WT16)	22:04	14	07:06 (KLZ_WT16)
31	08:26						07:26						05:37		06:05 (KLZ_WT23)			
	17:33						20:15						21:49	40	07:08 (KLZ_WT16)			
Potential sun hours	262			279			367			414			482			494		
Total, worst case		19			29			11			23			1050			481	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,55			0,56			0,64			0,68			0,68	
Total reduction		0,13			0,16			0,21			0,29			0,30			0,29	
Total, real		2			5			2			7			317			141	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September	October			November	December		
1	05:34		06:52 (KLZ_WT16)	06:09		06:45 (KLZ_WT16)	06:57	07:45			07:37	08:26		
	22:04	15	07:07 (KLZ_WT16)	21:34	36	07:21 (KLZ_WT16)	20:33	19:26			17:21	16:42		
2	05:35		06:51 (KLZ_WT16)	06:11		06:46 (KLZ_WT16)	06:59	07:46		08:11 (MVN_WT01)	07:38	08:27		
	22:04	17	07:08 (KLZ_WT16)	21:32	35	07:21 (KLZ_WT16)	20:31	19:23	1	08:12 (MVN_WT01)	17:19	16:42		
3	05:35		06:51 (KLZ_WT16)	06:12		06:46 (KLZ_WT16)	07:00	07:48			07:40	08:29		
	22:04	18	07:09 (KLZ_WT16)	21:30	34	07:20 (KLZ_WT16)	20:29	19:21			17:18	16:41		
4	05:36		06:51 (KLZ_WT16)	06:14		06:47 (KLZ_WT16)	07:02	07:49			07:42	08:30		
	22:03	19	07:10 (KLZ_WT16)	21:29	33	07:20 (KLZ_WT16)	20:27	19:19			17:16	16:41		
5	05:37		06:17 (KLZ_WT23)	06:15		06:43 (SAM_WT07)	07:04	07:51			07:44	08:31		
	22:03	21	07:11 (KLZ_WT16)	21:27	32	07:19 (KLZ_WT16)	20:24	19:17			17:14	16:40		
6	05:38		06:14 (KLZ_WT23)	06:17		06:44 (SAM_WT07)	07:05	07:53		08:17 (RHR_WT01)	07:45	08:33		
	22:02	26	07:11 (KLZ_WT16)	21:25	31	07:18 (KLZ_WT16)	20:22	19:14	2	08:19 (RHR_WT01)	17:12	16:40		
7	05:39		06:14 (KLZ_WT23)	06:18		06:49 (KLZ_WT16)	07:07	07:54		08:19 (RHR_WT01)	07:47	08:34		
	22:02	29	07:12 (KLZ_WT16)	21:24	29	07:18 (KLZ_WT16)	20:20	19:12	2	08:21 (RHR_WT01)	17:11	16:39		
8	05:39		06:14 (KLZ_WT23)	06:20		06:50 (KLZ_WT16)	07:08	07:56			07:49	08:35		
	22:01	31	07:13 (KLZ_WT16)	21:22	26	07:16 (KLZ_WT16)	20:18	19:10			17:09	16:39		
9	05:40		06:13 (KLZ_WT23)	06:21		06:52 (KLZ_WT16)	07:10	07:58			07:51	08:36		09:23 (ATS_WT01)
	22:00	34	07:14 (KLZ_WT16)	21:20	23	07:15 (KLZ_WT16)	20:16	19:08			17:08	16:39	4	09:27 (ATS_WT01)
10	05:41		06:13 (KLZ_WT23)	06:23		06:53 (KLZ_WT16)	07:11	07:59			07:52	08:37		09:22 (ATS_WT01)
	22:00	35	07:14 (KLZ_WT16)	21:18	20	07:13 (KLZ_WT16)	20:13	19:06			17:06	16:38	7	09:29 (ATS_WT01)
11	05:42		06:13 (KLZ_WT23)	06:24		06:55 (KLZ_WT16)	07:13	08:01			07:54	08:38		09:22 (ATS_WT01)
	21:59	38	07:15 (KLZ_WT16)	21:16	17	07:12 (KLZ_WT16)	20:11	19:03			17:04	16:38	8	09:30 (ATS_WT01)
12	05:43		06:13 (KLZ_WT23)	06:26		06:58 (KLZ_WT16)	07:14	08:03			07:56	08:39		09:22 (ATS_WT01)
	21:58	39	07:16 (KLZ_WT16)	21:14	10	07:08 (KLZ_WT16)	20:09	19:01			17:03	16:38	9	09:31 (ATS_WT01)
13	05:44		06:14 (KLZ_WT23)	06:27			07:16	08:04		08:32 (ALB_WT01)	07:57	08:40		09:22 (ATS_WT01)
	21:57	39	07:17 (KLZ_WT16)	21:13			20:06	18:59	6	08:38 (ALB_WT01)	17:02	16:38	10	09:32 (ATS_WT01)
14	05:46		06:15 (KLZ_WT23)	06:29			07:18	08:06		08:31 (ALB_WT01)	07:59	08:41		09:22 (ATS_WT01)
	21:56	40	07:17 (KLZ_WT16)	21:11			20:04	18:57	8	08:39 (ALB_WT01)	17:00	16:38	10	09:32 (ATS_WT01)
15	05:47		06:16 (KLZ_WT23)	06:31			07:19	08:07		08:33 (ALB_WT01)	08:01	08:42		09:22 (ATS_WT01)
	21:56	40	07:18 (KLZ_WT16)	21:09			20:02	18:55	7	08:40 (ALB_WT01)	16:59	16:38	11	09:33 (ATS_WT01)
16	05:48		06:17 (KLZ_WT23)	06:32			07:21	08:09		08:35 (ALB_WT01)	08:03	08:43		09:23 (ATS_WT01)
	21:55	39	07:18 (KLZ_WT16)	21:07			20:00	18:53	6	08:41 (ALB_WT01)	16:57	16:38	11	09:34 (ATS_WT01)
17	05:49		06:18 (KLZ_WT23)	06:34			07:22	08:11		08:36 (ALB_WT01)	08:04	08:44		09:23 (ATS_WT01)
	21:54	40	07:19 (KLZ_WT16)	21:05			19:57	18:51	3	08:39 (ALB_WT01)	16:56	16:39	12	09:35 (ATS_WT01)
18	05:50		06:19 (KLZ_WT23)	06:35			07:24	08:13		08:38 (ALB_WT01)	08:06	08:45		09:23 (ATS_WT01)
	21:53	39	07:19 (KLZ_WT16)	21:03			19:55	18:48	1	08:39 (ALB_WT01)	16:55	16:39	12	09:35 (ATS_WT01)
19	05:51		06:21 (KLZ_WT23)	06:37			07:25	08:14			08:08	08:45		09:24 (ATS_WT01)
	21:51	39	07:20 (KLZ_WT16)	21:01			19:53	18:46			16:54	16:39	12	09:36 (ATS_WT01)
20	05:53		06:22 (KLZ_WT23)	06:38			07:27	08:16			08:09	08:46		09:24 (ATS_WT01)
	21:50	38	07:21 (KLZ_WT16)	20:59			19:51	18:44			16:52	16:40	13	09:37 (ATS_WT01)
21	05:54		06:23 (KLZ_WT23)	06:40			07:29	08:18			08:11	08:47		09:24 (ATS_WT01)
	21:49	36	07:21 (KLZ_WT16)	20:57			19:48	18:42			16:51	16:40	13	09:37 (ATS_WT01)
22	05:55		06:45 (KLZ_WT16)	06:42			07:30	08:19			08:12	08:47		09:25 (ATS_WT01)
	21:48	36	07:21 (KLZ_WT16)	20:55			19:46	18:40			16:50	16:40	13	09:38 (ATS_WT01)
23	05:57		06:45 (KLZ_WT16)	06:43		07:09 (CBR_WT01)	07:32	08:21			08:14	08:48		09:25 (ATS_WT01)
	21:47	36	07:21 (KLZ_WT16)	20:53	6	07:15 (KLZ_WT08)	19:44	18:38			16:49	16:41	13	09:38 (ATS_WT01)
24	05:58		06:45 (KLZ_WT16)	06:45		07:11 (KLZ_WT08)	07:33	08:23			08:16	08:48		09:26 (ATS_WT01)
	21:45	37	07:22 (KLZ_WT16)	20:51	6	07:17 (KLZ_WT08)	19:41	18:36			16:48	16:42	12	09:38 (ATS_WT01)
25	05:59		06:45 (KLZ_WT16)	06:46		07:12 (KLZ_WT08)	07:35	07:24			08:17	08:48		09:27 (ATS_WT01)
	21:44	37	07:22 (KLZ_WT16)	20:48	5	07:17 (KLZ_WT08)	19:39	17:34			16:47	16:42	12	09:39 (ATS_WT01)
26	06:01		06:45 (KLZ_WT16)	06:48		07:14 (KLZ_WT08)	07:37	07:26			08:19	08:49		09:27 (ATS_WT01)
	21:43	37	07:22 (KLZ_WT16)	20:46	4	07:18 (KLZ_WT08)	19:37	17:32			16:46	16:43	12	09:39 (ATS_WT01)
27	06:02		06:45 (KLZ_WT16)	06:49		07:15 (KLZ_WT08)	07:38	07:28			08:20	08:49		09:28 (ATS_WT01)
	21:41	38	07:23 (KLZ_WT16)	20:44	2	07:17 (KLZ_WT08)	19:35	17:30			16:45	16:44	11	09:39 (ATS_WT01)
28	06:03		06:45 (KLZ_WT16)	06:51			07:40	07:30			08:22	08:49		09:28 (ATS_WT01)
	21:40	37	07:22 (KLZ_WT16)	20:42			19:32	17:29			16:44	16:44	11	09:39 (ATS_WT01)
29	06:05		06:45 (KLZ_WT16)	06:53			07:41	07:31			08:23	08:49		09:29 (ATS_WT01)
	21:38	37	07:22 (KLZ_WT16)	20:40			19:30	17:27			16:44	16:45	10	09:39 (ATS_WT01)
30	06:06		06:46 (KLZ_WT16)	06:54			07:43	07:33			08:25	08:50		09:29 (ATS_WT01)
	21:37	36	07:22 (KLZ_WT16)	20:38			19:28	17:25			16:43	16:46	11	09:40 (ATS_WT01)
31	06:08		06:46 (KLZ_WT16)	06:56				07:35				08:50		09:30 (ATS_WT01)
	21:35	36	07:22 (KLZ_WT16)	20:36				17:23				16:47	10	09:40 (ATS_WT01)
Potential sun hours	498			451			380	333			269	248		
Total, worst case		1039			349				36				247	
Sun reduction		0,45			0,47				0,36				0,23	
Oper. time red.		0,97			0,97				0,97				0,97	
Wind dir. red.		0,68			0,67				0,55				0,53	
Total reduction		0,30			0,31				0,20				0,12	
Total, real		309			107				7				29	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (CBR_WT01)	06:20		06:44 (KLZ_WT23)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	6	07:52 (CBR_WT01)	21:06	47	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:44 (CBR_WT01)	06:18		06:42 (KLZ_WT23)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	6	07:50 (CBR_WT01)	21:08	49	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19			06:17		06:41 (KLZ_WT23)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20			21:10	50	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17			06:15		06:39 (KLZ_WT23)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22			21:11	51	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14			06:13		06:37 (KLZ_WT23)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24			21:13	51	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12			06:11		06:38 (KLZ_WT23)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25			21:14	50	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10			06:09		06:38 (KLZ_WT23)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27			21:16	48	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08			06:08		06:39 (KLZ_WT23)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29			21:18	43	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06			06:06		06:42 (KLZ_WT23)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30			21:19	38	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03			06:04		07:09 (KLZ_WT15)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32			21:21	33	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46			06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01			20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44			06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02			20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41			06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04			20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39			06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06			20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37			06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07			20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35			06:28		07:07 (KLZ_WT15)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09			21:00	40	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32			06:26		07:08 (KLZ_WT15)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11			21:01	40	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (CBR_WT01)	06:24		06:48 (KLZ_WT23)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	1	07:53 (CBR_WT01)	21:03	42	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (CBR_WT01)	06:22		06:46 (KLZ_WT23)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	3	07:53 (CBR_WT01)	21:05	44	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (CBR_WT01)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	5	07:53 (CBR_WT01)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		156			655			35			501			637			20	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,55			0,55			0,60			0,64			0,65			0,71	
Total reduction		0,13			0,16			0,22			0,29			0,29			0,31	
Total, real		21			105			8			146			184			6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December
1	05:34		06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1	06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35		06:04 (KLZ_WT17)	06:11		07:20 (KLZ_WT15)	06:59			07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1	06:05 (KLZ_WT17)	21:32	32	07:52 (KLZ_WT15)	20:31			19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35			06:12		07:19 (KLZ_WT15)	07:00			07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04			21:30	33	07:52 (KLZ_WT15)	20:29			19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36			06:14		06:51 (KLZ_WT23)	07:02			07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03			21:29	41	07:54 (KLZ_WT15)	20:27			19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37			06:15		06:49 (KLZ_WT23)	07:03			07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03			21:27	45	07:54 (KLZ_WT15)	20:24			19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38			06:17		06:48 (KLZ_WT23)	07:05			07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02			21:25	48	07:54 (KLZ_WT15)	20:22			19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38			06:18		06:47 (KLZ_WT23)	07:07			07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02			21:24	51	07:55 (KLZ_WT15)	20:20			19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39			06:20		06:47 (KLZ_WT23)	07:08			07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01			21:22	52	07:55 (KLZ_WT15)	20:18			19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40			06:21		06:49 (KLZ_WT23)	07:10			07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00			21:20	51	07:56 (KLZ_WT15)	20:16			19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41			06:23		06:50 (KLZ_WT23)	07:11		07:37 (CBR_WT01)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00			21:18	50	07:55 (KLZ_WT15)	20:13	6	07:43 (CBR_WT01)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42			06:24		06:52 (KLZ_WT23)	07:13		07:38 (CBR_WT01)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59			21:16	48	07:56 (KLZ_WT15)	20:11	6	07:44 (CBR_WT01)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43			06:26		06:53 (KLZ_WT23)	07:14		07:39 (CBR_WT01)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58			21:15	46	07:55 (KLZ_WT15)	20:09	5	07:44 (CBR_WT01)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44			06:27		06:54 (KLZ_WT23)	07:16		07:41 (CBR_WT01)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57			21:13	44	07:55 (KLZ_WT15)	20:06	4	07:45 (CBR_WT01)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45			06:29		07:15 (KLZ_WT15)	07:18		07:42 (CBR_WT01)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57			21:11	40	07:55 (KLZ_WT15)	20:04	2	07:44 (CBR_WT01)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47			06:31		07:14 (KLZ_WT15)	07:19			08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56			21:09	40	07:54 (KLZ_WT15)	20:02			18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48			06:32		07:15 (KLZ_WT15)	07:21			08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55			21:07	39	07:54 (KLZ_WT15)	20:00			18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49			06:34		07:15 (KLZ_WT15)	07:22			08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54			21:05	38	07:53 (KLZ_WT15)	19:57			18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50			06:35		07:16 (KLZ_WT15)	07:24			08:13			08:06			08:45
	21:53			21:03	37	07:53 (KLZ_WT15)	19:55			18:48			16:55			16:39
19	05:51			06:37		07:16 (KLZ_WT15)	07:25			08:14			08:08			08:45
	21:51			21:01	36	07:52 (KLZ_WT15)	19:53			18:46			16:54			16:39
20	05:53			06:38		07:17 (KLZ_WT15)	07:27			08:16			08:09			08:46
	21:50			20:59	35	07:52 (KLZ_WT15)	19:51			18:44			16:52			16:40
21	05:54			06:40		07:17 (KLZ_WT15)	07:29			08:18			08:11			08:47
	21:49			20:57	33	07:50 (KLZ_WT15)	19:48			18:42			16:51			16:40
22	05:55			06:41		07:08 (SAM_WT07)	07:30			08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48			20:55	34	07:49 (KLZ_WT15)	19:46			18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57			06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47			20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58			06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45			20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59		07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3	07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01		07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12	07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02		07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16	07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03		07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20	07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05		07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23	07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06		07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26	07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08		07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28	07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498			451			380			333			269			248
Total, worst case		130			1006			48			282			538		
Sun reduction		0,45			0,47			0,43			0,36			0,27		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,64			0,65			0,61			0,55			0,55		
Total reduction		0,28			0,29			0,26			0,19			0,14		
Total, real		37			296			12			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (CBR_WT01)	06:20			05:37
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	10	07:56 (CBR_WT01)	21:06			21:51
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (CBR_WT01)	06:18			05:36
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	11	07:54 (CBR_WT01)	21:08			21:52
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:44 (CBR_WT01)	06:17			05:35
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	9	07:53 (CBR_WT01)	21:10			21:53
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:46 (CBR_WT01)	06:15			05:34
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	4	07:50 (CBR_WT01)	21:11			21:54
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14			06:13			05:34
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24			21:13			21:55
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12			06:11		06:36 (SAM_WT06)	05:33
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25			21:14	2	06:38 (SAM_WT06)	21:56
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10			06:09		06:34 (SAM_WT06)	05:32
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27			21:16	3	06:37 (SAM_WT06)	21:56
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08			06:08		06:32 (KLZ_WT23)	05:32
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29			21:17	4	06:36 (SAM_WT06)	21:57
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06			06:06		06:31 (KLZ_WT23)	05:31
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30			21:19	6	06:37 (KLZ_WT23)	21:58
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03			06:04		06:29 (KLZ_WT23)	05:31
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32			21:21	9	06:38 (KLZ_WT23)	21:59
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01			06:03		06:28 (KLZ_WT23)	05:31
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34			21:22	11	06:39 (KLZ_WT23)	22:00
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59			06:01		06:26 (KLZ_WT23)	05:30
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35			21:24	13	06:39 (KLZ_WT23)	22:00
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57			06:00		06:25 (KLZ_WT23)	05:30
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37			21:25	15	06:40 (KLZ_WT23)	22:01
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55			05:58		06:23 (KLZ_WT23)	05:30
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39			21:27	17	06:40 (KLZ_WT23)	22:02
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53			05:57		06:23 (KLZ_WT23)	05:30
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40			21:28	17	06:40 (KLZ_WT23)	22:02
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50			05:55		06:23 (KLZ_WT23)	05:30
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42			21:30	17	06:40 (KLZ_WT23)	22:03
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48			05:54		06:23 (KLZ_WT23)	05:30
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43			21:31	16	06:39 (KLZ_WT23)	22:03
18	08:41		09:09 (RHR_WT03)	07:55			06:55			06:46			05:52		06:24 (KLZ_WT23)	05:30
	17:11	13	09:23 (ALB_WT01)	18:05			18:54			20:45			21:33	15	06:39 (KLZ_WT23)	22:03
19	08:40		09:08 (RHR_WT03)	07:53			06:53			06:44			05:51		06:24 (KLZ_WT23)	05:30
	17:13	13	09:23 (ALB_WT01)	18:07			18:56			20:47			21:34	15	06:39 (KLZ_WT23)	22:04
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:25 (KLZ_WT23)	05:30
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57			20:48			21:35	14	06:39 (KLZ_WT23)	22:04
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:26 (KLZ_WT23)	05:30
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59			20:50			21:37	12	06:38 (KLZ_WT23)	22:04
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:26 (KLZ_WT23)	05:30
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	1	07:09 (KLZ_WT10)	20:52	2	07:03 (SAM_WT07)	21:38	11	06:37 (KLZ_WT23)	22:05
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:27 (KLZ_WT23)	05:30
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	3	07:09 (KLZ_WT10)	20:53	4	07:03 (SAM_WT07)	21:40	9	06:36 (KLZ_WT23)	22:05
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44		06:29 (KLZ_WT23)	05:31
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	5	07:09 (KLZ_WT10)	20:55	5	07:02 (SAM_WT07)	21:41	5	06:34 (KLZ_WT23)	22:05
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43			05:31
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	6	07:07 (KLZ_WT10)	20:57	6	07:01 (SAM_WT07)	21:42			22:05
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42			05:31
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	2	07:04 (KLZ_WT10)	20:58	7	07:00 (SAM_WT07)	21:43			22:05
27	08:31		08:57 (RHR_WT02)	07:36			06:35		06:57 (KLZ_WT11)	06:28			05:41			05:32
	17:26	3	09:00 (RHR_WT02)	18:21			19:09	1	06:58 (KLZ_WT11)	21:00			21:45			22:05
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT11)	06:26			05:40			05:32
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	2	06:57 (KLZ_WT11)	21:01			21:46			22:05
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (CBR_WT01)	06:24			05:39			05:33
	17:29	4	08:58 (RHR_WT02)				20:12	3	07:55 (CBR_WT01)	21:03			21:47			22:05
30	08:27						07:28		07:50 (CBR_WT01)	06:22			05:38			05:33
	17:31						20:14	6	07:56 (CBR_WT01)	21:05			21:48			22:04
31	08:26						07:26		07:48 (CBR_WT01)				05:37			
	17:33						20:15	8	07:56 (CBR_WT01)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		779			33			139			58			211		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,65			0,56			0,58			0,64			0,69		
Total reduction		0,16			0,16			0,21			0,29			0,31		
Total, real		122			5			30			17			65		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (KLZ_WT23)	06:57			07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04			21:34	12	06:49 (KLZ_WT23)	20:33			19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35			06:11		06:39 (KLZ_WT23)	06:59			07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04			21:32	10	06:49 (KLZ_WT23)	20:31			19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35			06:12		06:40 (KLZ_WT23)	07:00			07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04			21:30	8	06:48 (KLZ_WT23)	20:29			19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36			06:14		06:41 (KLZ_WT23)	07:02			07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03			21:29	5	06:46 (KLZ_WT23)	20:27			19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37			06:15		06:43 (KLZ_WT23)	07:03			07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03			21:27	4	06:47 (SAM_WT06)	20:24			19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38			06:17		06:44 (SAM_WT06)	07:05			07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02			21:25	3	06:47 (SAM_WT06)	20:22			19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38			06:18		06:46 (SAM_WT06)	07:07			07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02			21:24	1	06:47 (SAM_WT06)	20:20			19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39			06:20			07:08		07:40 (CBR_WT01)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01			21:22			20:18	4	07:44 (CBR_WT01)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40			06:21			07:10		07:38 (CBR_WT01)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00			21:20			20:15	9	07:47 (CBR_WT01)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41			06:23			07:11		07:36 (CBR_WT01)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00			21:18			20:13	11	07:47 (CBR_WT01)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42			06:24			07:13		07:38 (CBR_WT01)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59			21:16			20:11	10	07:48 (CBR_WT01)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43			06:26			07:14		07:39 (CBR_WT01)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58			21:14			20:09	8	07:47 (CBR_WT01)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44			06:27			07:16		07:41 (CBR_WT01)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57			21:13			20:06	6	07:47 (CBR_WT01)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45			06:29			07:18		07:42 (CBR_WT01)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56			21:11			20:04	4	07:46 (CBR_WT01)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47			06:31			07:19		07:44 (KLZ_WT11)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56			21:09			20:02	1	07:45 (KLZ_WT11)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48			06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT11)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55			21:07	3	07:05 (SAM_WT07)	20:00	2	07:47 (KLZ_WT11)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49			06:34		07:00 (SAM_WT07)	07:22			08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54			21:05	7	07:07 (SAM_WT07)	19:57			18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50			06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53			21:03	6	07:08 (SAM_WT07)	19:55	6	07:55 (KLZ_WT10)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51			06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51			21:01	5	07:08 (SAM_WT07)	19:53	5	07:55 (KLZ_WT10)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53		06:39 (KLZ_WT23)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50	6	06:45 (KLZ_WT23)	20:59	4	07:09 (SAM_WT07)	19:50	3	07:55 (KLZ_WT10)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54		06:37 (KLZ_WT23)	06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49	10	06:47 (KLZ_WT23)	20:57	2	07:08 (SAM_WT07)	19:48	1	07:54 (KLZ_WT10)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55		06:36 (KLZ_WT23)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48	12	06:48 (KLZ_WT23)	20:55			19:46			18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56		06:35 (KLZ_WT23)	06:43			07:32			08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47	13	06:48 (KLZ_WT23)	20:53			19:44			18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58		06:35 (KLZ_WT23)	06:45			07:33			08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45	15	06:50 (KLZ_WT23)	20:50			19:41			18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59		06:34 (KLZ_WT23)	06:46			07:35			07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44	16	06:50 (KLZ_WT23)	20:48			19:39			17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01		06:34 (KLZ_WT23)	06:48			07:37			07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43	16	06:50 (KLZ_WT23)	20:46			19:37			17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02		06:33 (KLZ_WT23)	06:49			07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41	17	06:50 (KLZ_WT23)	20:44			19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03		06:34 (KLZ_WT23)	06:51			07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40	17	06:51 (KLZ_WT23)	20:42			19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05		06:34 (KLZ_WT23)	06:52			07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38	16	06:50 (KLZ_WT23)	20:40			19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06		06:35 (KLZ_WT23)	06:54			07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37	16	06:51 (KLZ_WT23)	20:38			19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT23)	06:56						07:35						08:50		12:36 (KLZ_WT16)
	21:35	14	06:50 (KLZ_WT23)	20:35						17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		168			70			70			119			311			1476	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,68			0,62			0,56			0,60			0,68	
Total reduction		0,30			0,31			0,26			0,20			0,16			0,15	
Total, real		51			22			18			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		06:20 (KLZ_WT23)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	15	08:01 (CBR_WT01)	21:06	75	19:55 (KLZ_WT15)	21:51	89	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		06:22 (KLZ_WT23)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	12	07:59 (CBR_WT01)	21:08	76	19:56 (KLZ_WT15)	21:52	86	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (CBR_WT01)	06:17		18:40 (KLZ_WT15)	05:35		06:22 (KLZ_WT23)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	9	07:57 (CBR_WT01)	21:10	77	19:57 (KLZ_WT15)	21:53	85	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17			06:15		18:39 (KLZ_WT15)	05:34		06:23 (KLZ_WT23)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	6	08:23 (KLZ_WT08)	20:22			21:11	78	19:57 (KLZ_WT15)	21:54	82	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24			07:14			06:13		18:38 (KLZ_WT15)	05:34		06:24 (KLZ_WT23)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32			20:24			21:13	79	19:57 (KLZ_WT15)	21:55	80	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21			07:12			06:11		18:39 (KLZ_WT15)	05:33		06:25 (KLZ_WT23)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33			20:25			21:14	79	19:58 (KLZ_WT15)	21:56	77	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19			07:10			06:09		18:38 (KLZ_WT15)	05:32		06:28 (KLZ_WT23)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35			20:27			21:16	80	19:58 (KLZ_WT15)	21:56	72	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17			07:08			06:08		06:32 (SAM_WT06)	05:32		18:48 (KLZ_WT15)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37			20:29			21:17	81	19:57 (KLZ_WT15)	21:57	70	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15			07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		18:47 (KLZ_WT15)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39			20:30	1	07:29 (SAM_WT04)	21:19	83	19:58 (KLZ_WT15)	21:58	71	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13			07:03			06:04		06:29 (SAM_WT06)	05:31		18:48 (KLZ_WT15)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40			20:32			21:21	86	19:58 (KLZ_WT15)	21:59	70	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11			07:01			06:03		06:28 (SAM_WT06)	05:31		18:49 (KLZ_WT15)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42			20:34			21:22	86	19:58 (KLZ_WT15)	22:00	69	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08			06:59			06:01		06:26 (SAM_WT06)	05:30		18:48 (KLZ_WT15)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44			20:35			21:24	88	19:58 (KLZ_WT15)	22:00	70	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06			06:57		19:17 (KLZ_WT15)	06:00		06:25 (KLZ_WT23)	05:30		18:49 (KLZ_WT15)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45			20:37	7	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	69	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04			06:55		19:09 (KLZ_WT15)	05:58		06:23 (KLZ_WT23)	05:30		18:50 (KLZ_WT15)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47			20:38	23	19:32 (KLZ_WT15)	21:27	89	19:58 (KLZ_WT15)	22:02	68	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02			06:53		19:05 (KLZ_WT15)	05:56		06:22 (KLZ_WT23)	05:30		18:50 (KLZ_WT15)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49			20:40	31	19:36 (KLZ_WT15)	21:28	91	19:58 (KLZ_WT15)	22:02	68	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59			06:50		07:13 (SAM_WT11)	05:55		06:21 (KLZ_WT23)	05:30		18:50 (KLZ_WT15)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50			20:42	37	19:38 (KLZ_WT15)	21:30	94	19:59 (KLZ_WT15)	22:03	68	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57			06:48		07:11 (SAM_WT11)	05:54		06:19 (KLZ_WT23)	05:30		18:51 (KLZ_WT15)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52			20:43	44	19:41 (KLZ_WT15)	21:31	95	19:58 (KLZ_WT15)	22:03	68	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		06:18 (KLZ_WT23)	05:30		18:51 (KLZ_WT15)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	2	07:19 (KLZ_WT10)	20:45	48	19:43 (KLZ_WT15)	21:33	97	19:58 (KLZ_WT15)	22:03	68	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		18:55 (KLZ_WT15)	05:51		06:18 (KLZ_WT23)	05:30		18:51 (KLZ_WT15)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	5	07:20 (KLZ_WT10)	20:47	49	19:44 (KLZ_WT15)	21:34	98	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		18:53 (KLZ_WT15)	05:49		06:18 (KLZ_WT23)	05:30		18:51 (KLZ_WT15)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	7	07:20 (KLZ_WT10)	20:48	53	19:46 (KLZ_WT15)	21:35	98	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		18:51 (KLZ_WT15)	05:48		06:18 (KLZ_WT23)	05:30		18:51 (KLZ_WT15)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	9	07:19 (KLZ_WT10)	20:50	56	19:47 (KLZ_WT15)	21:37	98	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:17 (KLZ_WT23)	05:30		18:52 (KLZ_WT15)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	9	07:18 (KLZ_WT10)	20:52	61	19:49 (KLZ_WT15)	21:38	98	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:06 (KLZ_WT11)	06:36		06:59 (SAM_WT07)	05:46		06:17 (KLZ_WT23)	05:30		18:52 (KLZ_WT15)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	8	07:17 (KLZ_WT10)	20:53	65	19:50 (KLZ_WT15)	21:40	97	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41		07:04 (KLZ_WT11)	06:34		06:57 (SAM_WT07)	05:44		06:17 (KLZ_WT23)	05:31		18:52 (KLZ_WT15)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04	3	07:07 (KLZ_WT11)	20:55	69	19:51 (KLZ_WT15)	21:41	97	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT11)	06:32		06:55 (SAM_WT07)	05:43		06:17 (KLZ_WT23)	05:31		18:53 (KLZ_WT15)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	5	07:06 (KLZ_WT11)	20:57	73	19:51 (KLZ_WT15)	21:42	97	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT11)	06:30		06:53 (SAM_WT07)	05:42		06:17 (KLZ_WT23)	05:31		18:52 (KLZ_WT15)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	5	07:04 (KLZ_WT11)	20:58	76	19:52 (KLZ_WT15)	21:43	96	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (CBR_WT01)	06:28		06:51 (SAM_WT07)	05:41		06:18 (KLZ_WT23)	05:32		18:53 (KLZ_WT15)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	4	07:01 (CBR_WT01)	21:00	79	19:53 (KLZ_WT15)	21:45	95	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (CBR_WT01)	06:26		06:51 (SAM_WT07)	05:40		06:18 (KLZ_WT23)	05:32		18:53 (KLZ_WT15)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	7	07:02 (CBR_WT01)	21:01	80	19:54 (KLZ_WT15)	21:46	94	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (CBR_WT01)	06:24		06:53 (SAM_WT07)	05:39		06:19 (KLZ_WT23)	05:33		18:53 (KLZ_WT15)
	17:29	3	08:57 (RHR_WT01)				20:12	9	08:01 (CBR_WT01)	21:03	78	19:55 (KLZ_WT15)	21:47	92	19:58 (KLZ_WT15)	22:05	69	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (CBR_WT01)	06:22		18:41 (KLZ_WT15)	05:38		06:20 (KLZ_WT23)	05:33		18:53 (KLZ_WT15)
	17:31	5	08:58 (RHR_WT01)				20:14	11	08:01 (CBR_WT01)	21:05	74	19:55 (KLZ_WT15)	21:48	91	19:58 (KLZ_WT15)	22:04	69	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		06:20 (KLZ_WT23)			
	17:33	6	08:57 (RHR_WT01)				20:15	13	08:01 (CBR_WT01)				21:49	90	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			147			1040			2762			2148	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,55			0,59			0,59			0,60			0,59	
Total reduction		0,17			0,16			0,22			0,27			0,27			0,26	
Total, real		186			31			32			279			742			550	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		18:53 (KLZ_WT15)	06:09		06:37 (SAM_WT06)	06:57			07:44			07:37			08:26		09:00 (RHR_WT03)
	22:04	69	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33			19:25			17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		18:52 (KLZ_WT15)	06:11		06:39 (SAM_WT06)	06:59			07:46			07:38			08:27		09:00 (RHR_WT03)
	22:04	70	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31			19:23			17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		18:53 (KLZ_WT15)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48			07:40			08:29		09:00 (RHR_WT03)
	22:04	70	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	1	07:27 (SAM_WT04)	19:21			17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		18:53 (KLZ_WT15)	06:14		06:41 (SAM_WT06)	07:02			07:49			07:42			08:30		09:02 (RHR_WT03)
	22:03	70	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27			19:19			17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		18:53 (KLZ_WT15)	06:15		06:43 (SAM_WT06)	07:03			07:51			07:44			08:31		09:03 (RHR_WT03)
	22:03	71	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24			19:16			17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		06:32 (KLZ_WT23)	06:17		18:48 (KLZ_WT15)	07:05			07:53			07:45			08:33		09:04 (RHR_WT03)
	22:02	77	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22			19:14			17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		06:31 (KLZ_WT23)	06:18		18:48 (KLZ_WT15)	07:07			07:54			07:47			08:34		09:06 (RHR_WT03)
	22:02	79	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20			19:12			17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		06:30 (KLZ_WT23)	06:20		18:48 (KLZ_WT15)	07:08			07:56			07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	83	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18			19:10			17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		06:30 (KLZ_WT23)	06:21		18:49 (KLZ_WT15)	07:10		07:43 (CBR_WT01)	07:58			07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	84	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	8	07:51 (CBR_WT01)	19:08			17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		06:29 (KLZ_WT23)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	86	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	12	07:52 (CBR_WT01)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		06:29 (KLZ_WT23)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	87	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	15	07:53 (CBR_WT01)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		06:29 (KLZ_WT23)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	88	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	13	07:52 (CBR_WT01)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		06:28 (KLZ_WT23)	06:27		18:49 (KLZ_WT15)	07:16		07:41 (CBR_WT01)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	90	20:06 (KLZ_WT15)	21:13	74	20:03 (KLZ_WT15)	20:06	12	07:53 (CBR_WT01)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		06:28 (KLZ_WT23)	06:29		07:00 (SAM_WT07)	07:18		07:42 (CBR_WT01)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	92	20:07 (KLZ_WT15)	21:11	78	20:02 (KLZ_WT15)	20:04	10	07:52 (CBR_WT01)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		06:28 (KLZ_WT23)	06:30		06:57 (SAM_WT07)	07:19		07:44 (CBR_WT01)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	93	20:07 (KLZ_WT15)	21:09	81	20:01 (KLZ_WT15)	20:02	7	07:51 (CBR_WT01)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		06:27 (KLZ_WT23)	06:32		06:59 (SAM_WT07)	07:21		07:45 (CBR_WT01)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	94	20:07 (KLZ_WT15)	21:07	78	20:00 (KLZ_WT15)	20:00	4	07:49 (CBR_WT01)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		06:27 (KLZ_WT23)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT11)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	95	20:07 (KLZ_WT15)	21:05	76	19:59 (KLZ_WT15)	19:57	5	07:52 (KLZ_WT11)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		06:27 (KLZ_WT23)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT11)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	96	20:07 (KLZ_WT15)	21:03	72	19:58 (KLZ_WT15)	19:55	5	07:54 (KLZ_WT11)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		06:27 (KLZ_WT23)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT11)	08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	96	20:07 (KLZ_WT15)	21:01	68	19:56 (KLZ_WT15)	19:53	4	07:54 (KLZ_WT11)	18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		06:27 (KLZ_WT23)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT11)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	99	20:09 (KLZ_WT15)	20:59	64	19:55 (KLZ_WT15)	19:50	8	08:03 (KLZ_WT10)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		06:27 (KLZ_WT23)	06:40		18:54 (KLZ_WT15)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	98	20:08 (KLZ_WT15)	20:57	59	19:53 (KLZ_WT15)	19:48	9	08:04 (KLZ_WT10)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		06:27 (KLZ_WT23)	06:41		18:56 (KLZ_WT15)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	97	20:08 (KLZ_WT15)	20:55	56	19:52 (KLZ_WT15)	19:46	10	08:05 (KLZ_WT10)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		06:27 (KLZ_WT23)	06:43		18:57 (KLZ_WT15)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	98	20:08 (KLZ_WT15)	20:53	52	19:49 (KLZ_WT15)	19:44	8	08:04 (KLZ_WT10)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		06:28 (KLZ_WT23)	06:45		18:59 (KLZ_WT15)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	98	20:09 (KLZ_WT15)	20:50	49	19:48 (KLZ_WT15)	19:41	6	08:04 (KLZ_WT10)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		06:28 (KLZ_WT23)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	98	20:09 (KLZ_WT15)	20:48	47	19:45 (KLZ_WT15)	19:39	3	08:03 (KLZ_WT10)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT23)	06:48		07:14 (SAM_WT11)	07:36			07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	96	20:09 (KLZ_WT15)	20:46	43	19:43 (KLZ_WT15)	19:37			17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT23)	06:49		07:15 (SAM_WT11)	07:38			07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	95	20:08 (KLZ_WT15)	20:44	37	19:40 (KLZ_WT15)	19:35			17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT23)	06:51		19:07 (KLZ_WT15)	07:40			07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	92	20:09 (KLZ_WT15)	20:42	30	19:37 (KLZ_WT15)	19:32			17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT23)	06:52		19:10 (KLZ_WT15)	07:41			07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	91	20:09 (KLZ_WT15)	20:40	22	19:32 (KLZ_WT15)	19:30			17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:34 (KLZ_WT23)	06:54		19:19 (KLZ_WT15)	07:43			07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	87	20:08 (KLZ_WT15)	20:38	5	19:24 (KLZ_WT15)	19:28			17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT23)	06:56						07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35						17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		2727			1952			140			210			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,61			0,59			0,62			0,56			0,70			0,68	
Total reduction		0,26			0,27			0,26			0,20			0,18			0,15	
Total, real		721			527			37			41			99			261	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

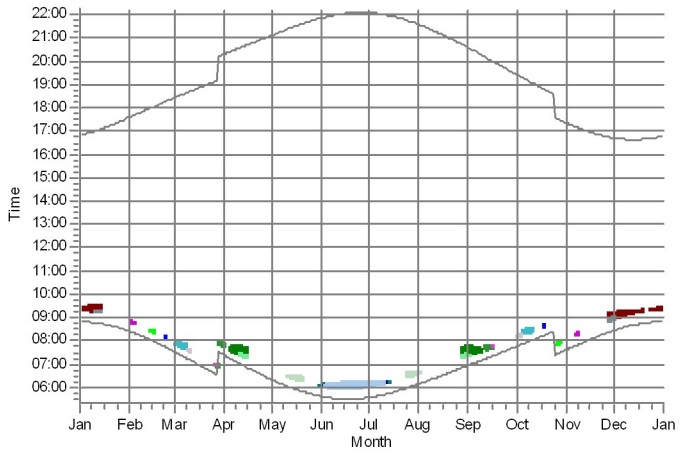
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Calculated:
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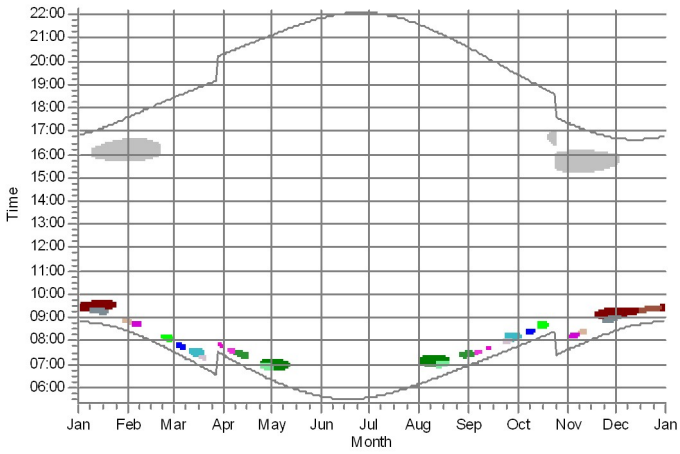
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

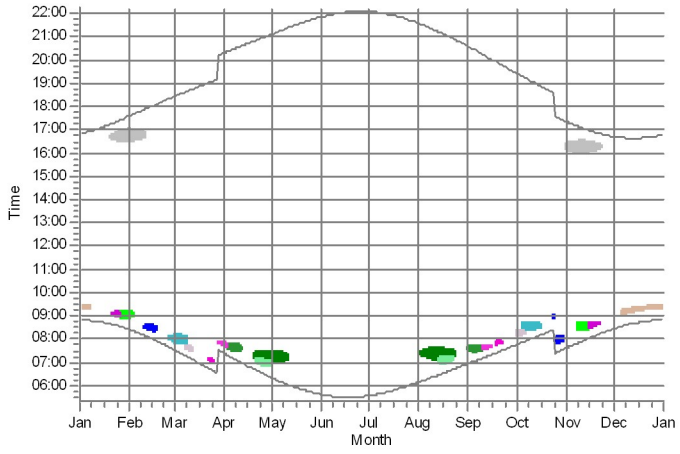
1: Hoogstraat 54, 9940 Evergem



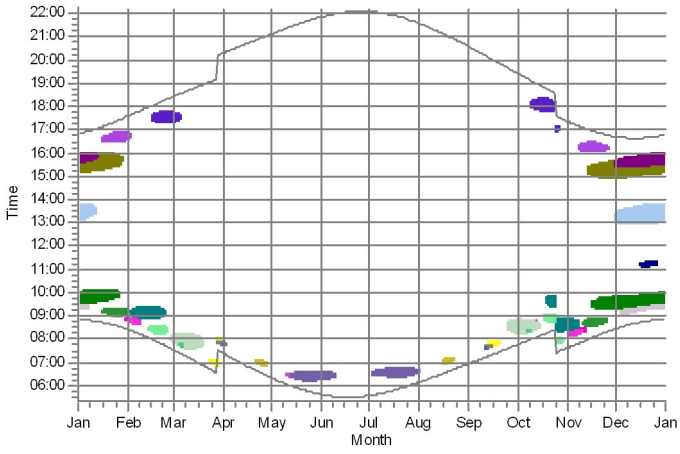
2: Pachtgoederen 2, 9940 Evergem



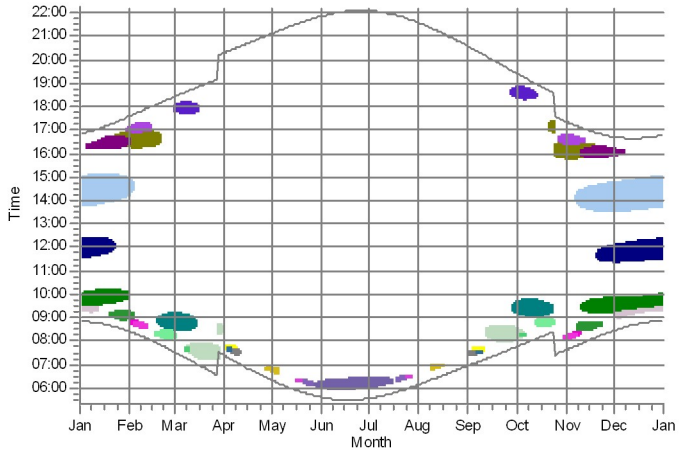
3: Pachtgoederen 2, 9940 Evergem



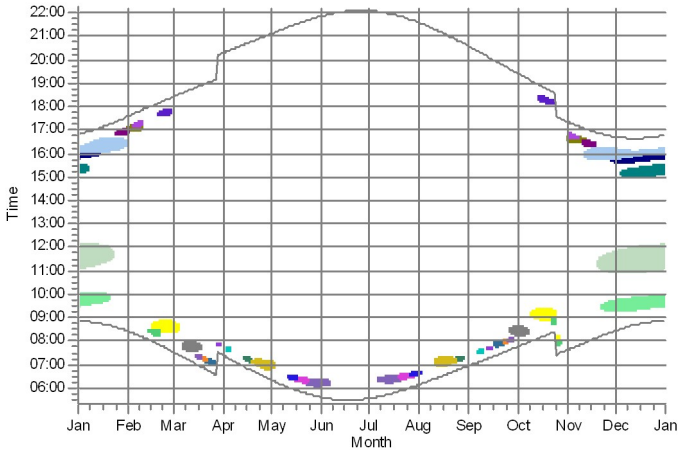
4: Ooievaarstraat 7, 9940 Evergem



5: Speidamstraat 58, 9940 Evergem



6: Rimew egel 46, 9940 Evergem



WTGs

KLZ_WT23: KLZ_WT23 Stukwerkers
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)
EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)
EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

Project:
WP Kluizendok v1

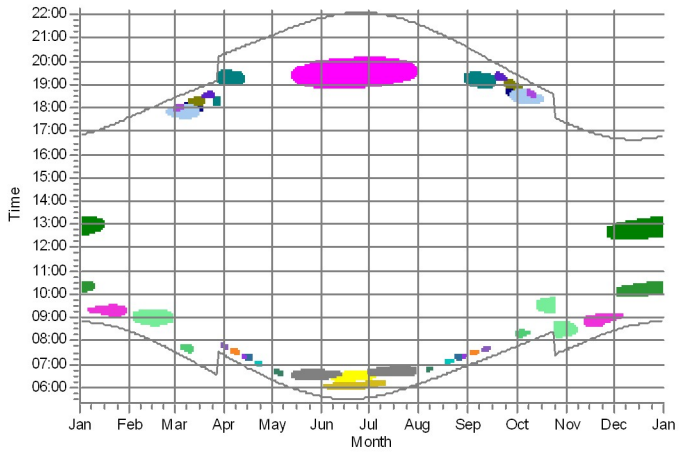
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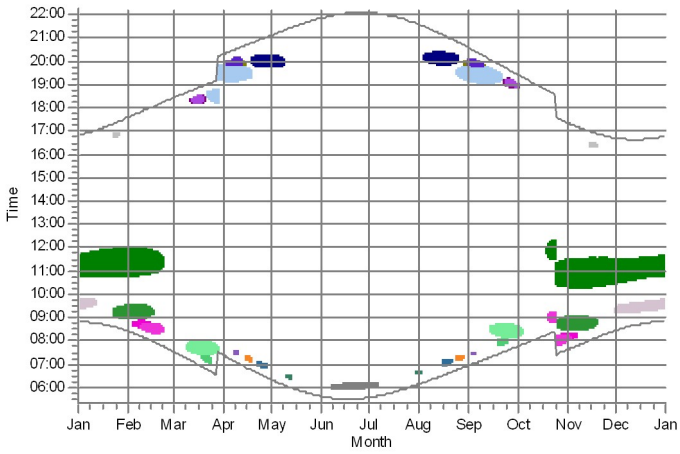
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

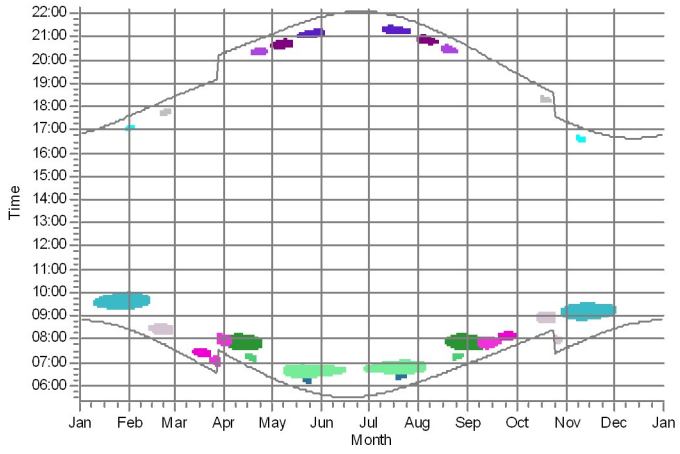
7: Christoffel Columbuslaan 23, 9042 Gent



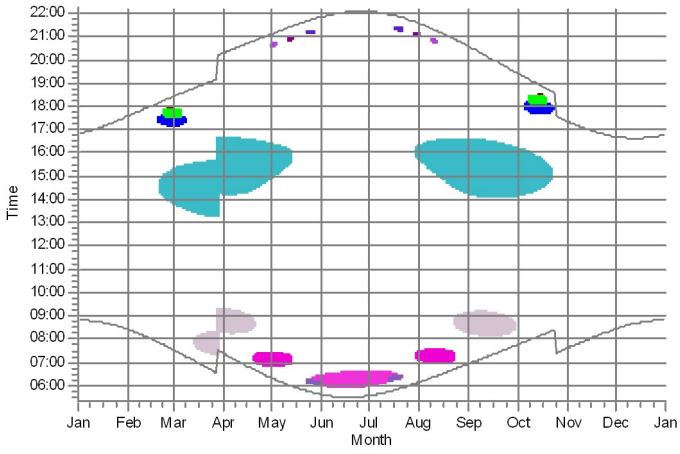
8: Christoffel Columbuslaan 23, 9042 Gent



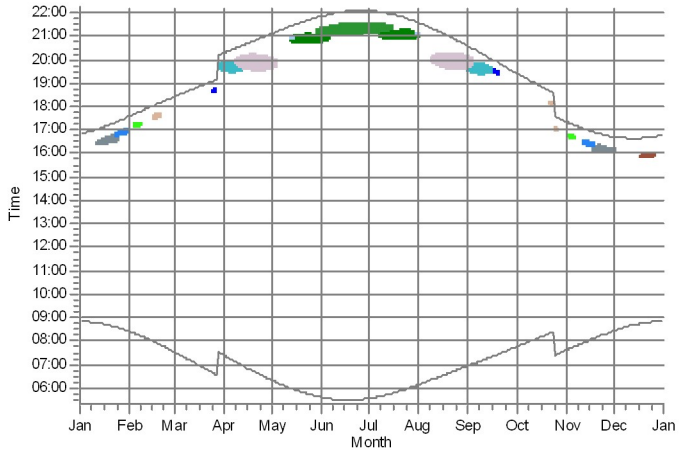
9: Willem van Rubroeckstraat 2, 9042 Gent



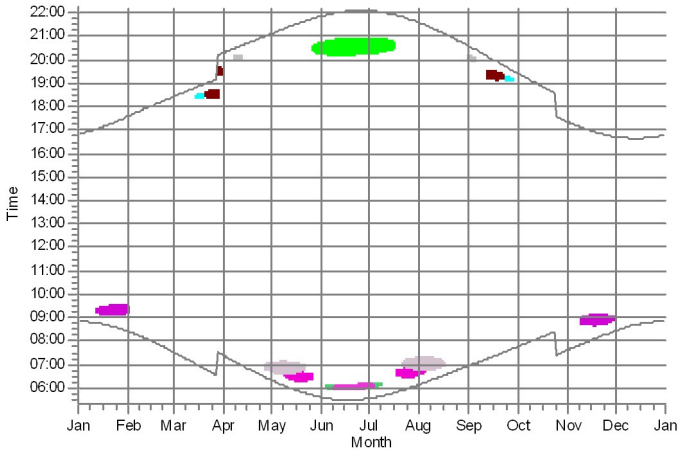
10: Arbedkaai 3, 9042 Gent



11: Schuitstraat 1, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

KLZ_WT23: KLZ_WT23 Stukwerkers
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!

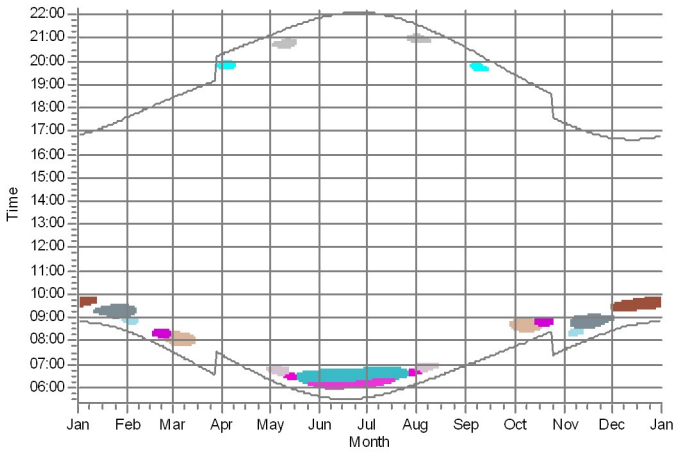
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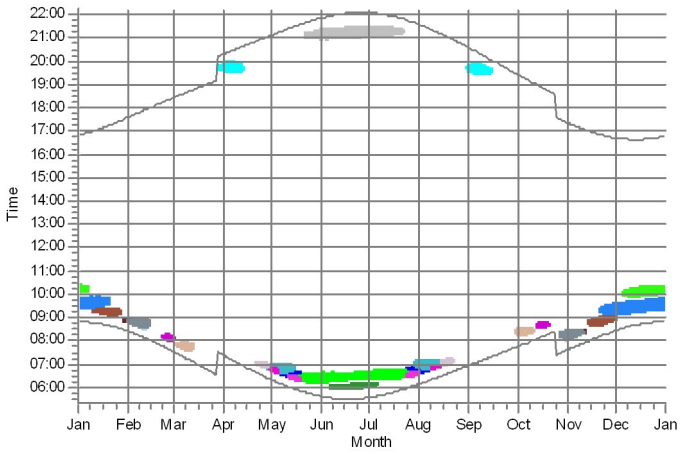
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

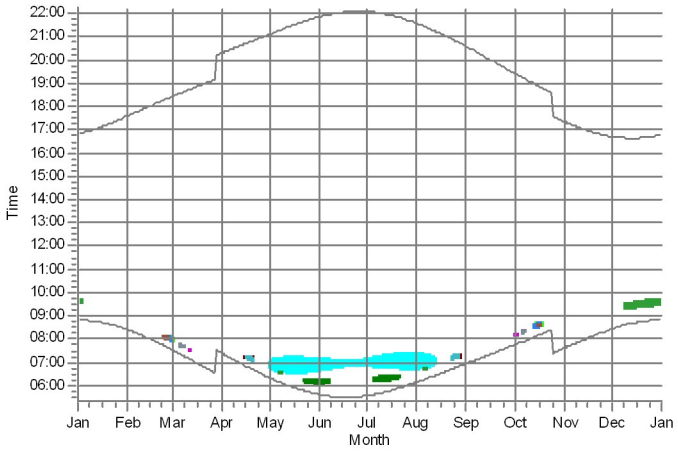
13: Doornzele Dries 107, 9940 Evergem



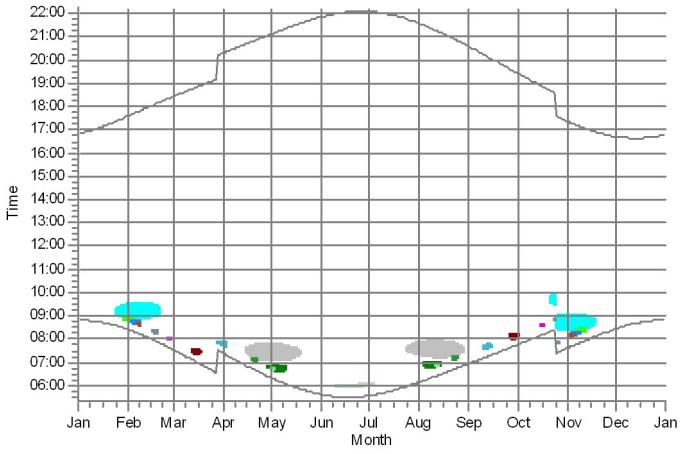
14: Abdijdreef 2, 9940 Evergem



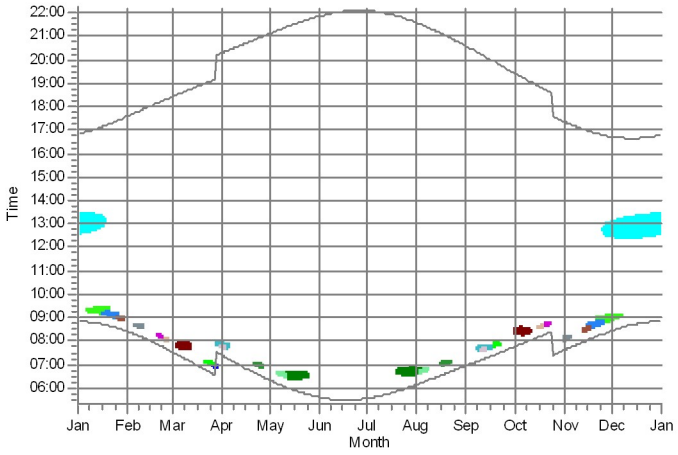
15: Hageland 41, 9940 Evergem



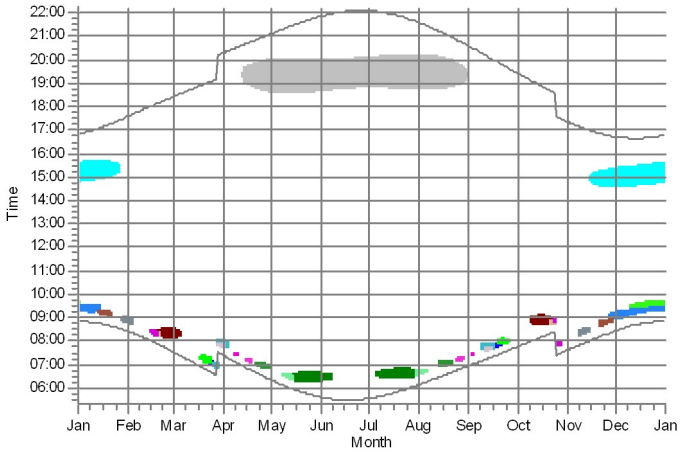
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

- KLZ_WT23: KLZ_WT23 Stukwerkers
- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
- MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

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Calculated:
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SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:49-11:38/49 09:34-09:59/25	08:24 10:50-11:58/68	07:32	07:23	06:20 06:44-07:27/43	05:36 06:20-06:34/14 20:49-21:01/12
	16:48 12:35-13:14/39	17:35	18:25	20:17	21:06	21:50 06:04-06:15/11
2	08:49 10:49-11:39/50 09:35-10:00/25	08:22 10:49-11:58/69	07:30	07:21	06:18 06:42-07:27/45	05:36 06:22-06:35/13 20:50-21:00/10
	16:49 12:36-13:15/39	17:36	18:26	20:19	21:08	21:52 06:06-06:16/10
3	08:49 10:50-11:40/50 09:35-10:01/26	08:21 10:49-11:58/69	07:28	07:19	06:16 06:41-07:27/46	05:35 06:22-06:34/12 20:51-21:00/9
	16:50 12:37-13:15/38	17:38	18:28	20:20	21:09	21:53 06:06-06:15/9
4	08:49 10:49-11:41/52 09:35-10:01/26	08:19 10:50-11:58/68	07:26	07:16	06:15 06:39-07:26/47	05:34 06:23-06:33/10 20:52-20:59/7
	16:51 12:37-13:14/37	17:40	18:30	20:22	21:11	21:54 06:07-06:15/8
5	08:49 10:49-11:42/53 09:36-10:02/26	08:18 10:50-11:58/68	07:24	07:14 07:37-07:44/7	06:13 06:37-07:25/48	05:33 06:24-06:32/8 20:54-20:58/4
	16:52 12:38-13:15/37	17:42	18:32	20:24	21:13	21:55 06:07-06:14/7
6	08:49 10:49-11:42/53 09:35-10:02/27	08:16 10:50-11:57/67	07:21	07:12 07:34-07:45/11	06:11 06:38-07:25/47	05:33 06:25-06:31/6
	16:54 12:39-13:14/35	17:44	18:33	20:25	21:14	21:56 06:09-06:14/5
7	08:48 10:49-11:43/54 09:36-10:03/27	08:14 10:51-11:57/66	07:19	07:10 07:32-07:46/14	06:09 06:38-06:49/11	05:32 06:28-06:29/1
	16:55 12:40-13:14/34	17:45	18:35	20:27	21:16 06:50-07:23/33	21:56 06:09-06:13/4
8	08:48 10:49-11:44/55 09:36-10:04/28	08:13 10:52-11:57/65	07:17	07:08 07:30-07:46/16	06:08 06:32-06:35/3 06:50-07:21/31	05:32
	16:56 12:41-13:14/33	17:47	18:37	20:29	21:17 06:39-06:47/8	21:57
9	08:47 10:49-11:45/56 09:37-10:05/28	08:11 10:52-11:56/64	07:15	07:05 07:29-07:47/18	06:06 06:31-06:37/6 07:07-07:20/13	05:31
	16:57 12:43-13:14/31	17:49	18:38	20:30	21:19 06:42-06:46/4 06:52-07:05/13	21:58
10	08:47 10:49-11:46/57 09:36-10:05/29	08:09 10:53-11:56/63	07:13	07:03 07:29-07:47/18	06:04 06:29-06:38/9 06:53-07:02/9	05:31
	16:59 12:44-13:13/29	17:51	18:40	20:32	21:21 07:09-07:17/8	21:59
11	08:46 10:49-11:46/57 09:36-10:05/29	08:08 10:53-11:55/62	07:10	07:01 07:29-07:46/17	06:03 06:28-06:39/11	05:31
	17:00 12:45-13:12/27	17:53	18:42	20:33	21:22 06:56-07:00/4	22:00
12	08:46 10:49-11:48/59 09:37-10:07/30	08:06 10:54-11:54/60	07:08	06:59 07:28-07:45/17	06:01 06:26-06:39/13	05:30
	17:02 12:47-13:12/25	17:54	18:44	20:35	21:24	22:00
13	08:45 10:49-11:49/60 09:37-10:07/30	08:04 10:54-11:53/59	07:06	06:57 07:29-07:44/15	05:59 06:25-06:40/15	05:30
	17:03 12:49-13:11/22	17:56	18:45	20:37	21:25 20:50-20:56/6	22:01
14	08:44 10:49-11:49/60 09:37-10:07/30	08:02 10:55-11:51/56	07:04	06:55 07:30-07:42/12	05:58 06:23-06:40/17	05:30
	17:05 12:51-13:09/18	17:58	18:47	20:38	21:27 20:48-20:57/9	22:01
15	08:44 10:49-11:50/61 09:38-10:08/30	08:00 10:56-11:50/54	07:02	06:52 07:31-07:40/9	05:56 06:22-06:40/18	05:30
	17:06 12:54-13:07/13	18:00	18:49	20:40	21:28 20:47-20:59/12	22:02
16	08:43 10:49-11:51/62	07:58 10:57-11:49/52	06:59	06:50	05:55 06:21-06:40/19	05:29
	17:08 09:38-10:08/30	18:02	18:50	20:42	21:30 20:46-20:59/13	22:03
17	08:42 10:49-11:51/62	07:56 10:59-11:47/48	06:57	06:48	05:53 06:19-06:39/20	05:29
	17:09 09:38-10:09/31	18:03	18:52	20:43	21:31 20:45-21:01/16	22:03
18	08:41 10:49-11:52/63	07:55 11:00-11:45/45	06:55	06:46	05:52 06:18-06:39/21	05:29
	17:11 09:39-10:09/30	18:05	18:54	20:45	21:33 20:45-21:02/17	22:03
19	08:40 10:49-11:53/64	07:53 11:02-11:42/40	06:53	06:44	05:51 06:18-06:39/21	05:29
	17:12 09:39-10:09/30	18:07	18:55	20:47	21:34 20:45-21:03/18	22:04
20	08:39 10:49-11:54/65	07:51 11:04-11:40/36	06:50	06:42 07:12-07:21/9	05:49 06:18-06:39/21	05:30
	17:14 09:40-10:09/29	18:09	18:57	20:48	21:35 20:44-21:03/19	22:04
21	08:38 10:48-11:54/66	07:49 11:07-11:36/29	06:48	06:40 07:09-07:24/15	05:48 06:18-06:38/20	05:30
	17:16 09:40-10:09/29	18:11	18:59	20:50	21:37 20:44-21:03/19	22:04
22	08:37 10:48-11:54/66	07:47 11:11-11:31/20	06:46	06:38 07:07-07:25/18	05:47 06:17-06:37/20	05:30
	17:17 09:41-10:09/28	18:12	19:00	20:52	21:38 20:44-21:03/19	22:05
23	08:36 10:48-11:55/67	07:45	06:43	06:36 07:05-07:26/21	05:46 06:17-06:36/19 20:45-21:04/19	05:30
	17:19 09:42-10:09/27	18:14	19:02	20:53	21:39 06:12-06:14/2	22:05
24	08:35 10:48-11:55/67	07:43	06:41	06:34 07:04-07:27/23	05:44 06:17-06:36/19 20:45-21:04/19	05:30
	17:21 09:43-10:09/26	18:16	19:04	20:55	21:41 06:11-06:15/4	22:05
25	08:34 10:48-11:56/68	07:40	06:39	06:32 06:55-07:27/32	05:43 06:17-06:36/19 20:45-21:03/18	05:31
	17:22 09:43-10:08/25	18:18	19:05	20:56	21:42 06:10-06:15/5	22:05
26	08:32 10:49-11:57/68	07:38	06:37	06:30 06:53-07:28/35	05:42 06:17-06:36/19 20:45-21:03/18	05:31
	17:24 09:44-10:08/24	18:19	19:07	20:58	21:43 06:09-06:15/6	22:05
27	08:31 10:48-11:57/69	07:36	06:34	06:28 06:51-07:28/37	05:41 06:18-06:36/18 20:46-21:03/17	05:32
	17:26 09:45-10:06/21	18:21	19:09	21:00	21:45 06:08-06:16/8	22:05
28	08:30 10:49-11:57/68	07:34	06:32	06:26 06:51-07:28/37	05:40 06:18-06:36/18 20:46-21:03/17	05:32
	17:28 09:47-10:06/19	18:23	19:10	21:01	21:46 06:08-06:16/8	22:05
29	08:28 10:48-11:57/69		07:30	06:24 06:48-06:49/1	05:39 06:19-06:36/17 20:47-21:02/15	05:33
	17:29 09:48-10:04/16		20:12	21:03 06:50-07:28/38	21:47 06:07-06:16/9	22:05
30	08:27 10:49-11:58/69		07:28	06:22 06:46-07:28/42	05:38 06:20-06:36/16 20:48-21:03/15	05:33
	17:31 09:51-10:02/11		20:14	21:05	21:48 06:06-06:16/10	22:04
31	08:25 10:49-11:58/69		07:25		05:37 06:20-06:35/15 20:48-21:02/14	
	17:33		20:15		21:49 06:05-06:16/11	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	3137	1228	0	462	1167	160

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 06:37-06:49/12 21:34	06:57 07:28-07:45/17 20:33	07:44 19:25	07:36 10:22-11:25/63 17:21	08:26 10:31-11:29/58 09:18-09:48/30 16:42 12:27-12:54/27
2	05:34 22:04	06:10 06:39-06:49/10 07:05-07:12/7 21:32 07:23-07:25/2	06:59 07:27-07:45/18 20:31	07:46 19:23	07:38 10:22-11:26/64 17:19	08:27 10:32-11:29/57 09:19-09:48/29 16:41 12:27-12:56/29
3	05:35 22:03	06:12 06:40-06:48/8 07:02-07:14/12 21:30 07:18-07:29/11	07:00 07:27-07:45/18 20:29	07:48 19:21	07:40 10:21-11:26/65 17:17	08:29 10:32-11:28/56 09:20-09:48/28 16:41 12:26-12:57/31
4	05:36 22:03	06:13 06:41-06:46/5 07:16-07:30/14 21:29 06:51-06:57/6 07:01-07:15/14	07:02 07:27-07:43/16 20:27	07:49 19:19	07:42 10:20-11:27/67 17:16	08:30 10:34-11:29/55 09:21-09:49/28 16:40 12:26-12:59/33
5	05:37 06:17-06:18/1 22:03	06:15 06:43-06:45/2 07:00-07:32/32 21:27 06:49-06:58/9	07:03 07:29-07:43/14 20:24	07:51 19:16	07:43 10:20-11:27/67 17:14	08:31 10:34-11:29/55 09:21-09:49/28 16:40 12:25-12:59/34
6	05:37 06:32-06:37/5 22:02 06:14-06:19/5	06:16 06:48-07:33/45 21:25	07:05 07:30-07:41/11 20:22	07:52 19:14	07:45 10:20-11:28/68 17:12	08:33 10:35-11:28/53 09:21-09:48/27 16:39 12:25-13:00/35
7	05:38 06:31-06:38/7 22:02 06:14-06:20/6	06:18 06:47-07:34/47 21:23	07:06 07:32-07:40/8 20:20	07:54 19:12	07:47 10:20-11:28/68 17:11	08:34 10:36-11:29/53 09:23-09:49/26 16:39 12:25-13:02/37
8	05:39 06:30-06:40/10 21:00-21:06/6 22:01 06:14-06:21/7	06:20 06:47-07:35/48 21:22	07:08 07:33-07:35/2 20:18	07:56 19:10	07:49 10:20-11:28/68 17:09	08:35 10:37-11:29/52 09:23-09:49/26 16:39 12:25-13:02/37
9	05:40 06:30-06:41/11 20:59-21:07/8 22:00 06:13-06:22/9	06:21 06:49-07:36/47 21:20	07:10 20:15	07:57 19:08	07:50 10:20-11:29/69 17:07	08:36 10:38-11:29/51 09:23-09:49/26 16:38 12:25-13:03/38
10	05:41 06:29-06:42/13 20:58-21:08/10 22:00 06:13-06:23/10	06:23 06:50-07:36/46 21:18	07:11 20:13	07:59 19:05	07:52 10:20-11:29/69 17:06	08:37 10:38-11:28/50 09:24-09:49/25 16:38 12:25-13:04/39
11	05:42 06:29-06:42/13 20:58-21:09/11 21:59 06:13-06:24/11	06:24 06:52-07:35/43 21:16	07:13 20:11	08:01 19:03	07:54 10:21-11:29/68 17:04 09:27-09:29/2	08:38 10:39-11:28/49 09:24-09:50/26 16:38 12:25-13:04/39
12	05:43 06:29-06:43/14 20:57-21:10/13 21:58 06:13-06:24/11	06:26 06:53-07:36/43 21:14	07:14 20:09	08:02 19:01	07:56 10:20-11:29/69 17:03 09:22-09:33/11	08:39 10:40-11:28/48 09:25-09:50/25 16:38 12:25-13:05/40
13	05:44 06:28-06:44/16 20:57-21:11/14 21:57 06:14-06:24/10	06:27 06:54-07:36/42 21:12	07:16 20:06	08:04 18:59	07:57 10:20-11:29/69 17:01 09:20-09:36/16	08:40 10:40-11:29/49 09:25-09:50/25 16:38 12:25-13:06/41
14	05:45 06:28-06:44/16 20:56-21:11/15 21:56 06:15-06:25/10	06:29 06:58-07:36/38 21:11	07:17 20:04	08:06 18:57	07:59 10:21-11:29/68 17:00 09:19-09:38/19	08:41 10:41-11:29/48 09:26-09:51/25 16:38 12:25-13:06/41
15	05:46 06:28-06:45/17 20:56-21:12/16 21:55 06:16-06:25/9	06:30 06:58-07:35/37 21:09	07:19 20:02	08:07 18:55	08:01 10:21-11:29/68 16:59 09:18-09:39/21	08:42 10:42-11:29/47 09:27-09:51/24 16:38 12:26-13:07/41
16	05:48 06:27-06:45/18 20:55-21:12/17 21:54 06:17-06:25/8	06:32 06:59-07:35/36 21:07	07:21 19:59	08:09 18:52	08:02 10:22-11:30/68 16:57 09:17-09:41/24	08:43 10:43-11:30/47 09:27-09:51/24 16:38 12:26-13:08/42
17	05:49 06:27-06:46/19 20:55-21:13/18 21:53 06:18-06:25/7	06:33 07:00-07:34/34 21:05	07:22 19:57	08:11 18:50	08:04 10:22-11:30/68 16:56 09:17-09:42/25	08:44 10:44-11:30/46 09:28-09:52/24 16:38 12:27-13:09/42
18	05:50 06:27-06:46/19 20:55-21:13/18 21:52 06:19-06:25/6	06:35 07:02-07:34/32 21:03	07:24 19:55	08:12 18:48	08:06 10:22-11:29/67 16:55 09:17-09:43/26	08:45 10:44-11:30/46 09:28-09:52/24 16:39 12:26-13:09/43
19	05:51 06:27-06:46/19 20:54-21:13/19 21:51 06:21-06:26/5	06:37 07:10-07:32/22 21:01	07:25 19:53	08:14 11:47-11:57/10 18:46	08:07 10:22-11:29/67 16:53 09:16-09:43/27	08:45 10:45-11:30/45 09:29-09:53/24 16:39 12:27-13:10/43
20	05:52 06:27-06:47/20 20:54-21:13/19 21:50 06:22-06:25/3	06:38 07:11-07:32/21 20:59	07:27 19:50	08:16 11:41-12:04/23 18:44	08:09 10:23-11:29/66 16:52 09:16-09:44/28	08:46 10:46-11:31/45 09:30-09:53/23 16:39 12:28-13:10/42
21	05:54 06:27-06:47/20 20:55-21:14/19 21:49 06:23-06:24/1	06:40 07:12-07:30/18 20:57	07:28 19:48	08:17 11:37-12:08/31 18:42	08:11 10:24-11:30/66 16:51 09:16-09:45/29	08:47 10:46-11:31/45 09:30-09:53/23 16:40 12:28-13:10/42
22	05:55 06:27-06:48/21 21:48 20:55-21:14/19	06:41 07:14-07:28/14 20:55	07:30 19:46	08:19 11:34-12:11/37 18:40	08:12 10:25-11:30/65 16:50 09:16-09:45/29	08:47 10:47-11:32/45 09:31-09:54/23 16:40 12:29-13:11/42
23	05:56 06:27-06:48/21 21:47 20:55-21:14/19	06:43 07:16-07:25/9 20:52	07:32 19:43	08:21 11:32-12:14/42 18:38	08:14 10:25-11:29/64 16:49 09:15-09:45/30	08:48 10:47-11:32/45 09:31-09:54/23 16:41 12:29-13:11/42
24	05:58 06:28-06:50/22 21:45 20:55-21:13/18	06:44 20:50	07:33 19:41	08:23 11:30-12:16/46 18:36	08:16 10:26-11:29/63 16:48 09:16-09:46/30	08:48 10:47-11:32/45 09:32-09:55/23 16:41 12:29-13:11/42
25	05:59 06:28-06:50/22 21:44 20:56-21:14/18	06:46 20:48	07:35 19:39	07:24 10:29-11:18/49 17:34	08:17 10:27-11:30/63 16:47 09:16-09:47/31	08:48 10:48-11:33/45 09:32-09:56/24 16:42 12:30-13:13/43
26	06:00 06:29-06:50/21 21:42 20:56-21:12/16	06:48 20:46	07:36 19:37	07:26 10:28-11:19/51 17:32	08:19 10:27-11:29/62 16:46 09:16-09:46/30	08:49 10:48-11:34/46 09:32-09:56/24 16:43 12:31-13:13/42
27	06:02 06:30-06:50/20 21:41 20:56-21:11/15	06:49 20:44	07:38 19:34	07:28 10:26-11:20/54 17:30	08:20 10:28-11:29/61 09:17-09:47/30 16:45 12:33-12:46/13	08:49 10:48-11:34/46 09:32-09:56/24 16:43 12:31-13:13/42
28	06:03 06:32-06:51/19 21:40 20:57-21:10/13	06:51 07:33-07:42/9 20:42	07:40 19:32	07:30 10:25-11:21/56 17:28	08:22 10:29-11:29/60 09:18-09:48/30 16:44 12:31-12:49/18	08:49 10:48-11:35/47 09:33-09:57/24 16:44 12:32-13:13/41
29	06:05 06:33-06:50/17 21:38 20:58-21:08/10	06:52 07:31-07:43/12 20:40	07:41 19:30	07:31 10:24-11:23/59 17:26	08:23 10:29-11:29/60 09:17-09:47/30 16:43 12:29-12:51/22	08:49 10:48-11:36/48 09:33-09:57/24 16:45 12:32-13:13/41
30	06:06 06:34-06:51/17 21:37 20:59-21:07/8	06:54 07:30-07:45/15 20:38	07:43 19:28	07:33 10:23-11:24/61 17:25	08:25 10:30-11:29/59 09:18-09:48/30 16:43 12:28-12:53/25	08:49 10:48-11:36/48 09:33-09:58/25 16:46 12:33-13:14/41
31	06:08 06:36-06:50/14 21:35 21:01-21:06/5	06:55 07:28-07:45/17 20:35		07:35 10:23-11:25/62 17:23		08:50 10:49-11:37/48 09:34-09:59/25 16:47 12:34-13:14/40
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	894	819	104	581	2545	3509

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:37-09:40/3	08:24 08:50-08:54/4	07:32 07:59-08:04/5	07:23	06:20	05:37
	16:48 10:05-10:22/17	17:35	18:25	20:17	21:06	21:50
2	08:49 10:07-10:22/15	08:22 08:48-08:54/6	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 10:07-10:21/14	08:21 08:46-08:53/7	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:08-10:21/13	08:19 08:46-08:53/7	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:10-10:20/10	08:18 17:12-17:13/1	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 10:11-10:19/8	08:16 17:12-17:15/3	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:20/2	08:14 17:13-17:17/4	07:19	07:10	06:09	05:32
	16:55 10:15-10:17/2	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:17-09:21/4	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:16-09:22/6	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:22/7	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:14-09:23/9	08:04	07:06	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:24/11	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:12-09:24/12	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:12-09:24/12	07:56	06:57	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:13-09:23/10	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:15-09:23/8	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:17-09:22/5	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:08/6	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:08/8	06:35	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:06/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:54/1		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	195	61	5	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40	16:45-16:47/2	08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	16:43-16:46/3	08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	16:42-16:44/2	08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12	16:42-16:43/1	16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02		07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:32-08:38/6	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:39/8	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:40/7	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:41/6	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11	08:36-08:39/3	08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12	08:38-08:39/1	08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	31		124		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December	
1	08:49 09:32-09:40/8	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26	
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42	
2	08:49 09:33-09:40/7	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27	
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42	
3	08:49 09:35-09:39/4	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29	
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41	
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30	
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41	
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31	
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40	
6	08:49	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33	
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40	
7	08:48	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34	
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39	
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35	
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39	
9	08:47	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36	09:23-09:27/4
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39	
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37	09:22-09:29/7
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38	
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38	09:22-09:30/8
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38	
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39	09:22-09:31/9
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38	
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40	09:22-09:32/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38	
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41	09:22-09:32/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38	
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42	09:22-09:33/11
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38	
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43	09:23-09:34/11
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38	
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44	09:23-09:35/12
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39	
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44	09:23-09:35/12
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39	
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45	09:24-09:36/12
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39	
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46	09:24-09:37/13
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40	
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46	09:24-09:37/13
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40	
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47	09:25-09:38/13
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40	
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47	09:25-09:38/13
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41	
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48	09:26-09:38/12
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42	
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48	09:27-09:39/12
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42	
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49	09:27-09:39/12
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43	
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49	09:28-09:39/11
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44	
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49	09:28-09:39/11
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44	
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49	09:29-09:39/10
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45	
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49	09:29-09:40/11
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46	
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49	09:30-09:40/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47	
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248	
Sum of minutes with flicker	19	0	0	0	0	0	0	0	0	0	0	247	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 09:22-09:57/35	07:32 13:53-15:15/82	07:23 07:46-08:01/15 14:16-16:35/139	06:20 06:44-06:58/14	05:36 06:13-06:40/27
	16:48	17:35	18:25 07:55-08:08/13	20:17 19:33-19:51/18	21:06 15:01-16:20/79	21:50
2	08:49	08:22 09:22-09:56/34	07:30 13:51-15:17/86	07:21 07:43-07:59/16 14:16-16:35/139	06:18 06:42-06:58/16	05:36 06:14-06:41/27
	16:49	17:36	18:26 07:53-08:09/16	20:19 19:32-19:52/20	21:08 15:04-16:19/75	21:51
3	08:49	08:21 09:22-09:56/34	07:28 13:49-15:19/90	07:19 07:44-07:57/13 14:16-16:35/139	06:16 06:41-07:00/19	05:35 06:14-06:40/26
	16:50	17:38	18:28 07:51-08:09/18	20:20 19:31-19:52/21	21:09 15:06-16:17/71	21:53
4	08:49	08:19 09:23-09:56/33	07:26 13:47-15:21/94	07:16 07:46-07:50/4 14:16-16:35/139	06:15 06:40-07:00/20	05:34 06:13-06:40/27
	16:51	17:40	18:30 07:49-08:09/20	20:22 19:31-19:53/22	21:11 15:10-16:17/67	21:54
5	08:49	08:18 09:23-09:55/32	07:24 13:44-15:21/97	07:14 19:30-19:52/22	06:13 06:40-06:59/19	05:33 06:14-06:41/27
	16:52	17:42	18:32 07:47-08:07/20	20:24 14:16-16:35/139	21:13 15:13-16:16/63	21:55
6	08:49	08:16 09:24-09:54/30	07:21 13:43-15:23/100	07:12 19:30-19:51/21	06:11 06:40-07:00/20	05:33 06:14-06:41/27
	16:54	17:44	18:33 07:44-08:07/23	20:25 14:16-16:34/138	21:14 15:16-16:14/58	21:55
7	08:48	08:14 09:25-09:53/28	07:19 13:41-15:24/103	07:10 19:30-19:51/21	06:09 06:40-07:00/20	05:32 06:14-06:41/27
	16:55	17:45	18:35 07:43-08:05/22	20:27 14:16-16:34/138	21:16 15:20-16:13/53	21:56
8	08:48	08:13 09:26-09:53/27	07:17 13:40-15:26/106 07:45-07:51/6	07:08 19:31-19:50/19	06:08 06:39-06:59/20	05:32 06:15-06:42/27
	16:56	17:47	18:37 07:54-08:04/10	20:28 14:16-16:34/138	21:17 15:23-16:11/48	21:57
9	08:47	08:11 09:28-09:51/23	07:15 13:38-15:26/108	07:05 19:32-19:49/17	06:06 06:40-06:59/19	05:31 06:15-06:41/26
	16:58	17:49	18:38	20:30 14:17-16:34/137	21:19 15:26-16:10/44	21:58
10	08:47	08:09 09:29-09:49/20	07:13 13:36-15:27/111	07:03 19:33-19:48/15	06:04 06:40-06:58/18	05:31 06:15-06:42/27
	16:59	17:51	18:40	20:32 14:17-16:34/137	21:20 15:30-16:08/38	21:59
11	08:46 09:31-09:35/4	08:08 09:31-09:47/16	07:10 13:35-15:28/113	07:01 19:34-19:45/11	06:03 06:41-06:58/17	05:31 06:16-06:42/26
	17:00	17:53	18:42	20:33 14:17-16:32/135	21:22 15:34-16:07/33	21:59
12	08:46 09:28-09:38/10	08:06 09:34-09:43/9	07:08 13:34-15:30/116	06:59 14:18-16:32/134	06:01 06:41-06:56/15	05:30 06:15-06:41/26
	17:02	17:54	18:44 07:31-07:35/4	20:35	21:24 15:38-16:04/26	22:00
13	08:45 09:27-09:41/14	08:04	07:06 13:32-15:30/118	06:57 14:19-16:32/133	05:59 06:43-06:56/13	05:30 06:15-06:42/27
	17:03	17:56	18:45 07:29-07:36/7	20:37	21:25 15:43-16:00/17	22:01
14	08:44 09:26-09:43/17	08:02	07:04 13:31-15:31/120	06:55 14:20-16:31/131	05:58 06:44-06:53/9	05:30 06:16-06:42/26
	17:05	17:58	18:47 07:26-07:36/10	20:38	21:27	22:01
15	08:44 09:25-09:44/19	08:00	07:01 13:30-15:31/121	06:52 14:21-16:31/130	05:56 06:47-06:51/4	05:30 06:16-06:42/26
	17:06	18:00	18:49 07:24-07:36/12	20:40	21:28	22:02
16	08:43 09:24-09:46/22	07:58	06:59 13:29-15:32/123	06:50 14:23-16:31/128	05:55	05:29 06:16-06:43/27
	17:08	18:02	18:50 07:22-07:36/14	20:42	21:30	22:02
17	08:42 09:23-09:47/24	07:56	06:57 13:27-15:32/125	06:48 07:11-07:13/2	05:53	05:29 06:17-06:43/26
	17:09	18:03	18:52 07:22-07:35/13	20:43 14:24-16:30/126	21:31	22:03
18	08:41 09:23-09:48/25	07:54	06:55 13:26-15:33/127	06:46 07:09-07:13/4	05:52 06:24-06:27/3	05:29 06:17-06:43/26
	17:11	18:05	18:54 07:22-07:33/11	20:45 14:26-16:30/124	21:32	22:03
19	08:40 09:22-09:50/28	07:53	06:53 13:25-15:34/129	06:44 07:07-07:12/5	05:51 06:21-06:31/10	05:29 06:17-06:43/26
	17:12	18:07	18:55 07:23-07:32/9	20:47 14:28-16:29/121	21:34	22:04
20	08:39 09:22-09:51/29	07:51	06:50 13:25-15:34/129	06:42 07:05-07:10/5	05:49 06:19-06:33/14	05:30 06:17-06:43/26
	17:14	18:09	18:57	20:48 14:30-16:29/119	21:35	22:04
21	08:38 09:21-09:51/30	07:49 14:21-14:48/27	06:48 13:23-15:34/131	06:40 14:32-16:28/116	05:48 06:17-06:33/16	05:30 06:17-06:43/26
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:21-09:52/31	07:47 14:15-14:53/38	06:46 13:22-15:34/132	06:38 14:34-16:27/113	05:47 06:16-06:35/19	05:30 06:18-06:44/26
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:21-09:53/32	07:45 14:11-14:58/47	06:43 13:22-15:35/133	06:36 14:37-16:27/110	05:46 06:16-06:36/20	05:30 06:18-06:44/26
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:20-09:53/33	07:42 14:07-15:02/55	06:41 13:20-15:34/134	06:34 14:39-16:26/107	05:44 06:15-06:36/21	05:30 06:18-06:44/26
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:20-09:54/34	07:40 14:04-15:05/61	06:39 13:20-15:35/135	06:32 14:42-16:25/103	05:43 06:15-06:37/22	05:31 06:19-06:45/26
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:21-09:55/34	07:38 14:01-15:08/67	06:37 13:19-15:35/136	06:30 14:45-16:24/99	05:42 06:14-06:37/23	05:31 06:19-06:45/26
	17:24	18:19 08:02-08:04/2	19:07	20:58	21:43	22:05
27	08:31 09:20-09:55/35	07:36 13:57-15:10/73	06:34 06:57-07:01/4	06:28 14:48-16:23/95	05:41 06:14-06:38/24	05:32 06:18-06:44/26
	17:26	18:21 08:00-08:07/7	19:09 13:19-15:36/137	21:00	21:45	22:05
28	08:30 09:21-09:56/35	07:34 13:55-15:13/78	06:32 06:55-07:02/7	06:26 14:51-16:22/91	05:40 06:13-06:38/25	05:32 06:19-06:45/26
	17:28	18:23 07:57-08:07/10	19:10 13:18-15:35/137	21:01	21:46	22:05
29	08:28 09:20-09:55/35		07:30 07:52-08:01/9 14:18-16:35/137	06:24 06:48-06:56/8	05:39 06:14-06:39/25	05:33 06:20-06:46/26
	17:29		20:12 19:41-19:46/5	21:03 14:55-16:22/87	21:47	22:05
30	08:27 09:21-09:56/35		07:28 07:50-08:01/11 14:17-16:35/138	06:22 06:46-06:57/11	05:38 06:14-06:40/26	05:33 06:19-06:46/27
	17:31		20:14 19:37-19:49/12	21:05 14:58-16:21/83	21:48	22:04
31	08:25 09:21-09:56/35		07:25 07:48-08:01/13 14:17-16:36/139		05:37 06:14-06:40/26	
	17:33		20:15 19:35-19:50/15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	561	786	3991	3958	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 19:33-19:44/11 20:33 14:17-16:32/135	07:44 14:12-16:09/117 19:25 08:09-08:15/6	07:36 08:58-09:20/22 17:21	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 19:31-19:46/15 20:31 14:15-16:31/136	07:46 14:13-16:08/115 19:23 08:11-08:13/2	07:38 08:57-09:21/24 17:19	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 19:30-19:47/17 20:29 14:15-16:32/137	07:48 14:14-16:06/112 19:21	07:40 08:55-09:22/27 17:17	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 19:28-19:47/19 20:27 14:13-16:31/138	07:49 14:15-16:05/110 19:19	07:42 08:54-09:23/29 17:16	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 19:27-19:48/21 20:24 14:13-16:31/138	07:51 14:16-16:03/107 08:23-08:27/4 19:16 08:32-08:39/7	07:43 08:54-09:24/30 17:14	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 19:26-19:47/21 20:22 14:12-16:30/138	07:52 14:17-16:01/104 08:20-08:28/8 19:14 08:29-08:41/12	07:45 08:53-09:25/32 17:12	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 19:26-19:48/22 20:20 14:11-16:30/139	07:54 14:18-16:00/102 19:12 08:19-08:42/23	07:47 08:53-09:26/33 17:11	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 14:10-16:29/139 20:18 19:25-19:47/22	07:56 14:20-15:58/98 19:10 08:21-08:43/22	07:49 08:53-09:26/33 17:09	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 14:10-16:29/139 20:15 19:26-19:47/21	07:57 14:20-15:56/96 19:08 08:22-08:43/21	07:50 08:52-09:27/35 17:07	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 14:09-16:28/139 20:13 19:25-19:45/20	07:59 14:22-15:54/92 19:05 08:24-08:43/19	07:52 08:52-09:27/35 17:06	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 14:09-16:28/139 20:11 19:26-19:44/18	08:01 14:24-15:52/88 19:03 08:26-08:43/17	07:54 08:53-09:28/35 17:04	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 14:08-16:27/139 20:09 19:26-19:42/16	08:02 14:25-15:49/84 19:01 08:28-08:42/14	07:56 08:52-09:27/35 17:03	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 14:09-16:27/138 20:06 19:28-19:40/12	08:04 14:27-15:47/80 18:59 08:29-08:41/12	07:57 08:52-09:27/35 17:01	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 14:08-16:26/138 20:04 19:30-19:37/7	08:06 14:29-15:45/76 18:57 08:31-08:40/9	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 18:55 08:33-08:38/5	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 07:09-07:14/5 20:52 14:33-16:32/119	07:32 14:08-16:18/130 19:43	08:21 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 07:11-07:16/5 20:50 14:31-16:33/122	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:12-07:16/4 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:16/2 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 14:24-16:32/128 20:44	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 14:23-16:33/130 20:42	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 17:28	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 19:30 08:06-08:17/11	07:31 17:26	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 19:28 08:08-08:16/8	07:33 09:03-09:14/11 17:25	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 19:38-19:40/2 20:35 14:18-16:32/134		07:35 09:00-09:17/17 17:23		08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3089	4419	1939	859	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: EAM_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:07-06:17/10	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35 06:07-06:17/10	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:09-06:17/8	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:09-06:16/7	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:11-06:15/4	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38 06:18-06:21/3	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39 06:17-06:23/6	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40 06:16-06:24/8	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41 06:16-06:25/9	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30	05:42 06:16-06:26/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43 06:15-06:26/11	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59 06:25-06:27/2	05:30	05:44 06:15-06:27/12	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45 06:15-06:27/12	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46 06:16-06:27/11	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47 06:17-06:28/11	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48 06:18-06:28/10	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:28/9	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29	05:51 06:20-06:28/8	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:17/1	05:29	05:52 06:21-06:27/6	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:16/2	05:29	05:53 06:23-06:28/5	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:47 06:13-06:17/4	05:30	05:55 06:24-06:27/3	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:12-06:18/6	05:30	05:56 06:25-06:27/2	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34	05:44 06:11-06:18/7	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43 06:10-06:18/8	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:09-06:18/9	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:08-06:18/10	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:18/11	05:32	06:03 06:32-06:35/3	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:18/12	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:18/12	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37 06:07-06:18/11		06:07 06:36-06:37/1	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	103	39	145	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: EAM_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:23/1	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:23/4	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52 06:18-06:24/6	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50 06:17-06:24/7	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:24/8	05:29	05:52 06:27-06:29/2	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:22/8	05:29	05:53 06:25-06:31/6	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:46 06:14-06:21/7	05:30	05:55 06:24-06:32/8	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45 06:16-06:20/4	05:30	05:56 06:25-06:33/8	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57 06:26-06:33/7	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59 06:28-06:34/6	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00 06:29-06:34/5	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:34/2	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:34/1	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	49	0	49	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: EAM_WT03 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:28/2	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:28/3	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:27/5	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:26/5	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:31-06:35/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:37/5	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:37/4	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06 06:34-06:38/4	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:38/2	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	19	0	19	1	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: EAM_WT05 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:40
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:39
6	08:49	08:16	07:21	07:12	06:11	05:32	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	247
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:50	08:24		07:32	17:54-17:59/5	07:23		06:20		05:36	21:06-21:13/7
	16:48	17:35		18:25	17:22-17:42/20	20:17		21:06		21:51	
2	08:50	08:23		07:30	17:51-18:01/10	07:21		06:18		05:36	21:08-21:13/5
	16:49	17:36		18:27	17:23-17:41/18	20:19		21:08		21:52	
3	08:50	08:21		07:28	17:50-18:03/13	07:19		06:16		05:35	
	16:50	17:38		18:28	17:25-17:39/14	20:20		21:10		21:53	
4	08:49	08:20		07:26	17:48-18:05/17	07:17	19:54-19:57/3	06:15		05:34	
	16:51	17:40		18:30	17:28-17:36/8	20:22		21:11		21:54	
5	08:49	08:18		07:24	17:47-18:06/19	07:14	19:53-19:58/5	06:13		05:34	
	16:53	17:42		18:32		20:24		21:13		21:55	
6	08:49	08:16		07:22	17:46-18:08/22	07:12	19:52-19:59/7	06:11		05:33	
	16:54	17:44		18:33		20:25		21:14		21:56	
7	08:48	08:15		07:19	17:46-18:10/24	07:10	19:51-20:01/10	06:09		05:32	
	16:55	17:45		18:35		20:27		21:16		21:57	
8	08:48	08:13		07:17	17:45-18:10/25	07:08	19:52-20:03/11	06:08		05:32	
	16:56	17:47		18:37		20:29		21:18		21:57	
9	08:48	08:11		07:15	17:46-18:10/24	07:06	19:52-20:05/13	06:06		05:31	
	16:58	17:49		18:39		20:30		21:19		21:58	
10	08:47	08:09		07:13	17:45-18:09/24	07:03	19:53-20:06/13	06:04		05:31	
	16:59	17:51		18:40		20:32		21:21		21:59	
11	08:47	08:08		07:11	17:45-18:08/23	07:01	19:53-20:03/10	06:03		05:31	
	17:00	17:53		18:42		20:34		21:22		22:00	
12	08:46	08:06		07:08	17:46-18:07/21	06:59	19:55-20:01/6	06:01		05:30	
	17:02	17:55		18:44		20:35		21:24		22:00	
13	08:45	08:04		07:06	17:47-18:06/19	06:57		05:59		05:30	
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:45	08:02		07:04	17:48-18:04/16	06:55		05:58		05:30	
	17:05	17:58		18:47		20:39		21:27		22:02	
15	08:44	08:00		07:02	17:50-18:02/12	06:53		05:56		05:30	
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	17:27-17:34/7	06:59		06:50		05:55		05:30	
	17:08	18:02		18:50		20:42		21:30		22:03	
17	08:42	07:57	17:25-17:36/11	06:57		06:48		05:54		05:29	
	17:09	18:04		18:52		20:43		21:31		22:03	
18	08:41	07:55	17:23-17:38/15	06:55		06:46		05:52	21:02-21:03/1	05:29	
	17:11	18:05		18:54		20:45		21:33		22:04	
19	08:40	07:53	17:22-17:40/18	06:53	18:29-18:31/2	06:44		05:51	21:02-21:04/2	05:30	
	17:12	18:07		18:56		20:47		21:34		22:04	
20	08:39	07:51	17:21-17:42/21	06:50	18:29-18:32/3	06:42		05:49	21:02-21:06/4	05:30	
	17:14	18:09		18:57		20:48		21:36		22:04	
21	08:38	07:49	17:21-17:44/23	06:48	18:27-18:33/6	06:40		05:48	21:01-21:06/5	05:30	
	17:16	18:11		18:59		20:50		21:37		22:04	
22	08:37	07:47	17:20-17:46/26	06:46	18:27-18:35/8	06:38		05:47	21:01-21:07/6	05:30	
	17:17	18:12		19:01		20:52		21:38		22:05	
23	08:36	07:45	17:20-17:48/28	06:44	18:28-18:37/9	06:36		05:46	21:01-21:09/8	05:30	
	17:19	18:14		19:02		20:53		21:40		22:05	
24	08:35	07:43	17:20-17:50/30	06:41	18:28-18:38/10	06:34		05:44	21:01-21:10/9	05:30	
	17:21	18:16		19:04		20:55		21:41		22:05	
25	08:34	07:41	17:20-17:52/32	06:39	18:30-18:36/6	06:32		05:43	21:01-21:11/10	05:31	
	17:22	18:18		19:06		20:57		21:42		22:05	
26	08:32	07:39	17:20-17:51/31	06:37		06:30		05:42	21:02-21:12/10	05:31	
	17:24	18:20		19:07		20:58		21:44		22:05	
27	08:31	07:36	17:21-17:45/24	06:35		06:28		05:41	21:02-21:13/11	05:32	
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34	17:21-17:43/22	06:32		06:26		05:40	21:02-21:14/12	05:32	
	17:28	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	21:04-21:16/12	05:33	
	17:29			20:12		21:03		21:47		22:05	
30	08:27			07:28		06:22		05:38	21:04-21:15/11	05:33	
	17:31			20:14		21:05		21:48		22:05	
31	08:26			07:26				05:37	21:05-21:14/9		
	17:33			20:15				21:50			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	288		378		78		110		12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:53-20:03/10	07:45 18:25-18:46/21	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11	06:59 19:51-20:03/12	07:46 18:25-18:47/22	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:50-20:03/13	07:48 18:23-18:46/23	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02 19:49-20:00/11	07:49 18:23-18:47/24	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03 19:49-19:58/9	07:51 18:22-18:47/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05 19:48-19:55/7	07:53 18:21-18:46/25	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:07 19:48-19:54/6	07:54 18:22-18:45/23	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08 19:49-19:51/2	07:56 18:22-18:43/21	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:58 18:22-18:40/18	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:16-21:20/4	06:23	07:11	07:59 18:23-18:38/15	07:52	08:37
	22:00	21:18	20:13	19:05 18:01-18:12/11	17:06	16:38
11	05:42 21:15-21:21/6	06:24	07:13	08:01 18:24-18:36/12	07:54	08:39
	21:59	21:16	20:11	19:03 17:58-18:14/16	17:04	16:38
12	05:43 21:14-21:22/8	06:26	07:14	08:02 18:26-18:34/8	07:56	08:40
	21:58	21:15	20:09	19:01 17:57-18:16/19	17:03	16:38
13	05:44 21:13-21:23/10	06:27	07:16	08:04 18:29-18:31/2	07:57	08:41
	21:57	21:13	20:06	18:59 17:54-18:16/22	17:01	16:38
14	05:45 21:13-21:24/11	06:29	07:18	08:06 17:53-18:17/24	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07 17:53-18:22/29	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09 17:52-18:23/31	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11 17:51-18:22/31	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13 17:51-18:20/29	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14 17:51-18:18/27	08:08	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16 17:52-18:16/24	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18 17:51-18:14/23	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19 17:52-18:12/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21 17:53-18:10/17	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 21:11-21:14/3	06:45	07:33 19:13-19:15/2	08:23 17:54-18:08/14	08:16	08:48
	21:45	20:51	19:41	18:36	16:48	16:41
25	05:59 21:12-21:14/2	06:46	07:35	07:24 16:56-17:06/10	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 16:59-17:04/5	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:32-18:41/9	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:30-18:44/14	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:27-18:45/18	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	125	6	157	591	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 17:00-17:05/5	07:32 17:57-17:59/2	07:23	06:20 20:37-20:38/1	05:36
	16:48	17:35 16:38-16:50/12	18:25	20:17	21:06	21:51
2	08:50	08:23 16:59-17:07/8	07:30 17:57-18:01/4	07:21	06:18 20:38-20:40/2	05:36
	16:49	17:36 16:40-16:48/8	18:27	20:19	21:08	21:52
3	08:50	08:21 16:58-17:09/11	07:28 17:57-18:03/6	07:19	06:16 20:39-20:41/2	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49	08:20 16:58-17:11/13	07:26 17:58-18:05/7	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49	08:18 16:58-17:13/15	07:24 17:58-18:06/8	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49	08:16 16:57-17:15/18	07:22 18:00-18:05/5	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48	08:15 16:57-17:16/19	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:57
8	08:48	08:13 16:58-17:19/21	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:18	21:57
9	08:48	08:11 16:59-17:20/21	07:15	07:06	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09 16:59-17:17/18	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47	08:08 17:00-17:16/16	07:11	07:01	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46	08:06 17:01-17:15/14	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45	08:04 17:03-17:13/10	07:06 18:17-18:20/3	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45	08:02 17:07-17:09/2	07:04 18:16-18:22/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:39	21:27	22:02
15	08:44	08:00	07:02 18:16-18:24/8	06:53	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:33-16:35/2	07:58	06:59 18:16-18:26/10	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:32-16:37/5	07:57	06:57 18:16-18:27/11	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:32-16:39/7	07:55	06:55 18:17-18:28/11	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:32-16:41/9	07:53	06:53 18:19-18:26/7	06:44 20:17-20:20/3	05:51	05:30
	17:12	18:07	18:56	20:47	21:34	22:04
20	08:39 16:32-16:43/11	07:51	06:50	06:42 20:17-20:22/5	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:31-16:44/13	07:49	06:48	06:40 20:16-20:23/7	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:31-16:46/15	07:47	06:46	06:38 20:16-20:25/9	05:47	05:30
	17:17	18:12	19:01	20:52	21:38	22:05
23	08:36 16:31-16:48/17	07:45	06:44	06:36 20:16-20:26/10	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:32-16:50/18	07:43	06:41	06:34 20:16-20:28/12	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:31-16:51/20	07:41	06:39	06:32 20:17-20:29/12	05:43	05:31
	17:22	18:18	19:06	20:57	21:42	22:05
26	08:32 16:32-16:53/21	07:39	06:37	06:30 20:18-20:27/9	05:42	05:31
	17:24	18:20	19:07	20:58	21:44	22:05
27	08:31 16:32-16:52/20	07:36	06:35	06:28 20:21-20:24/3	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 16:33-16:53/20	07:34	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 16:33-16:52/19		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:35-16:52/17		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 17:01-17:03/2		07:26		05:37	
	17:33 16:36-16:51/15		20:15		21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	231	211	88	70	5	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:57-18:58/1	07:37	16:29-16:47/18	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46		07:38	16:28-16:50/22	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:28-16:48/20	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:27-16:46/19	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:27-16:44/17	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17		07:05		07:53		07:45	16:28-16:42/14	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18		07:07		07:54		07:47	16:28-16:41/13	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20		07:08		07:56	18:35-18:42/7	07:49	16:29-16:39/10	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:50-20:51/1	07:10		07:58	18:32-18:40/8	07:51	16:30-16:38/8	08:36
	22:00	21:20		20:16		19:08		17:07	16:10-16:19/9	16:39
10	05:41	06:23	20:48-20:50/2	07:11		07:59	18:32-18:38/6	07:52	16:31-16:36/5	08:37
	22:00	21:18		20:13		19:05		17:06	16:09-16:21/12	16:38
11	05:42	06:24	20:46-20:48/2	07:13		08:01	18:31-18:36/5	07:54	16:33-16:35/2	08:38
	21:59	21:16		20:11		19:03		17:04	16:07-16:23/16	16:38
12	05:43	06:26		07:14		08:02	18:30-18:33/3	07:56	16:06-16:23/17	08:40
	21:58	21:15		20:09		19:01		17:03		16:38
13	05:44	06:27		07:16		08:04		07:57	16:05-16:24/19	08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29		07:18		08:06		07:59	16:05-16:24/19	08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30		07:19		08:07		08:01	16:05-16:25/20	08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:27-20:32/5	07:21		08:09		08:03	16:05-16:26/21	08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:24-20:34/10	07:22		08:11		08:04	16:05-16:25/20	08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:23-20:35/12	07:24		08:13		08:06	16:06-16:24/18	08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:22-20:33/11	07:25		08:14		08:08	16:05-16:22/17	08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:22-20:32/10	07:27		08:16		08:09	16:06-16:21/15	08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:21-20:29/8	07:29		08:18		08:11	16:07-16:20/13	08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:21-20:28/7	07:30		08:19		08:12	16:08-16:19/11	08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:20-20:25/5	07:32		08:21		08:14	16:08-16:17/9	08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:21-20:24/3	07:33	19:04-19:08/4	08:23		08:16	16:09-16:16/7	08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46		07:35	19:00-19:10/10	07:24		08:17	16:10-16:15/5	08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48		07:37	18:59-19:10/11	07:26		08:19	16:11-16:14/3	08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49		07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51		07:40	18:57-19:05/8	07:30	16:35-16:40/5	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:32-16:43/11	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:56-19:00/4	07:33	16:30-16:45/15	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:29-16:46/17			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	76		53		78		399		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	07:45-07:51/6	06:20		05:36	06:24-06:41/17
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21	07:46-07:48/2	06:18		05:35	06:25-06:41/16
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	06:25-06:40/15
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:14		05:34	06:25-06:40/15
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	06:27-06:40/13
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12	07:34-07:36/2	06:11		05:33	06:27-06:39/12
	16:54	17:43	18:33		20:25		21:14		21:56	
7	08:48	08:14	07:19	07:44-07:53/9	07:10	07:32-07:37/5	06:09		05:32	06:28-06:39/11
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:42-07:55/13	07:08	07:30-07:36/6	06:07		05:32	06:00-06:02/2
	16:56	17:47	18:37		20:28		21:17		21:57	06:28-06:38/10
9	08:47	08:11	07:15	07:41-07:56/15	07:05	07:28-07:35/7	06:06		05:31	06:00-06:03/3
	16:57	17:49	18:38		20:30		21:19		21:58	06:29-06:38/9
10	08:47	08:09	07:13	07:39-07:56/17	07:03	07:30-07:33/3	06:04		05:31	06:00-06:04/4
	16:59	17:51	18:40		20:32		21:21		21:59	06:31-06:37/6
11	08:46	08:08	07:10	07:39-07:56/17	07:01		06:02		05:30	05:59-06:04/5
	17:00	17:53	18:42		20:33		21:22		22:00	06:31-06:36/5
12	08:46	08:06	07:08	07:39-07:56/17	06:59		06:01		05:30	05:59-06:05/6
	17:02	17:54	18:44		20:35		21:24		22:00	06:33-06:35/2
13	08:45	08:04	07:06	07:38-07:55/17	06:57		05:59		05:30	05:59-06:06/7
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:38-07:54/16	06:54		05:58	06:29-06:34/5	05:30	05:59-06:06/7
	17:04	17:58	18:47		20:38		21:27		22:01	
15	08:44	08:00	07:01	07:39-07:53/14	06:52		05:56	06:27-06:37/10	05:29	05:59-06:07/8
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:41-07:51/10	06:50		05:55	06:26-06:38/12	05:29	05:59-06:07/8
	17:07	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:44-07:46/2	06:48		05:53	06:24-06:39/15	05:29	05:59-06:07/8
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55		06:46		05:52	06:24-06:40/16	05:29	05:59-06:07/8
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:52		06:44		05:51	06:23-06:40/17	05:29	05:59-06:08/9
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50		06:42		05:49	06:23-06:41/18	05:29	05:59-06:08/9
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48		06:40		05:48	06:22-06:41/19	05:30	05:59-06:08/9
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	06:22-06:41/19	05:30	06:00-06:09/9
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43		06:36		05:45	06:22-06:41/19	05:30	06:00-06:09/9
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:43	06:41		06:34		05:44	06:22-06:42/20	05:30	06:00-06:09/9
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39		06:32		05:43	06:22-06:42/20	05:31	06:01-06:09/8
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:22-06:42/20	05:31	06:01-06:09/8
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:22-06:42/20	05:31	06:01-06:09/8
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:22-06:41/19	05:32	06:02-06:09/7
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	07:52-07:53/1	06:24		05:39	06:22-06:41/19	05:32	06:02-06:09/7
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	07:50-07:53/3	06:22		05:38	06:23-06:42/19	05:33	06:03-06:09/6
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	07:48-07:53/5			05:37	06:24-06:41/17		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	156		31		304		295	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:10/6	06:09	06:57	07:44 08:17-08:35/18	07:36	08:26
	22:04 06:37-06:41/4	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:09/5	06:10	06:59 07:28-07:31/3	07:46 08:17-08:35/18	07:38	08:27
	22:04 06:35-06:41/6	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:09/4	06:12	07:00 07:26-07:33/7	07:48 08:17-08:34/17	07:40	08:29
	22:04 06:35-06:43/8	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:09/3	06:13	07:02 07:27-07:33/6	07:49 08:17-08:33/16	07:42	08:30
	22:03 06:35-06:44/9	21:29	20:27	19:19	17:16	16:40
5	05:36 06:06-06:07/1	06:15	07:03 07:29-07:34/5	07:51 08:18-08:32/14	07:43	08:31
	22:03 06:33-06:44/11	21:27	20:24	19:16	17:14	16:40
6	05:37 06:33-06:45/12	06:16	07:05 07:30-07:33/3	07:52 08:19-08:30/11	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:33-06:46/13	06:18	07:06	07:54 08:21-08:28/7	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:33-06:47/14	06:19	07:08	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:33-06:48/15	06:21	07:10	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:33-06:48/15	06:23	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:32-06:49/17	06:24	07:13 07:38-07:44/6	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:32-06:49/17	06:26	07:14 07:39-07:44/5	08:02	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:32-06:50/18	06:27	07:16 07:41-07:44/3	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:32-06:50/18	06:29	07:17 07:42-07:43/1	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 06:32-06:51/19	06:30	07:19	08:07	08:01	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:32-06:51/19	06:32	07:21	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:31-06:51/20	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:31-06:51/20	06:35	07:24	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51 06:31-06:51/20	06:37	07:25	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:31-06:51/20	06:38	07:27	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 06:32-06:52/20	06:40	07:28	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 06:32-06:51/19	06:41	07:30	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:32-06:51/19	06:43	07:32	08:21	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:33-06:50/17	06:44	07:33	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:34-06:51/17	06:46	07:35	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:34-06:50/16	06:48	07:36	07:26	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02 06:35-06:49/14	06:49	07:38 08:24-08:32/8	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:37-06:48/11	06:51	07:40 08:21-08:33/12	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:38-06:46/8	06:52	07:41 08:20-08:34/14	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43 08:18-08:34/16	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	455	0	89	101	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May	June	
1	08:50	08:24		07:32	08:26-08:44/18	07:23		06:20	05:36	
	16:48	17:35		18:25		20:17		21:06	21:51	
2	08:50	08:22		07:30	08:28-08:42/14	07:21	07:43-07:46/3	06:18	05:35	
	16:49	17:36		18:26		20:19		21:08	21:52	
3	08:49	08:21		07:28	08:30-08:40/10	07:19	07:41-07:47/6	06:16	05:35	
	16:50	17:38		18:28		20:20		21:09	21:53	
4	08:49	08:19		07:26		07:16	07:39-07:47/8	06:14	05:34	
	16:51	17:40		18:30		20:22		21:11	21:54	
5	08:49	08:18		07:24		07:14	07:37-07:47/10	06:13	05:33	
	16:52	17:42		18:32		20:24		21:13	21:55	
6	08:49	08:16		07:21		07:12	07:35-07:46/11	06:11	05:33	
	16:54	17:44		18:33		20:25		21:14	21:56	
7	08:48	08:14		07:19		07:10	07:36-07:45/9	06:09	05:32	
	16:55	17:45		18:35		20:27		21:16	21:56	
8	08:48	08:13		07:17		07:08	07:37-07:43/6	06:07	05:32	06:24-06:27/3
	16:56	17:47		18:37		20:28		21:17	21:57	
9	08:47	08:11		07:15		07:05		06:06	05:31	06:22-06:30/8
	16:57	17:49		18:38		20:30		21:19	21:58	
10	08:47	08:09		07:13		07:03		06:04	05:31	06:22-06:31/9
	16:59	17:51		18:40		20:32		21:21	21:59	
11	08:46	08:08		07:10		07:01		06:02	05:30	06:20-06:32/12
	17:00	17:53		18:42		20:33		21:22	22:00	
12	08:46	08:06		07:08		06:59		06:01	05:30	06:20-06:33/13
	17:02	17:54		18:44		20:35		21:24	22:00	
13	08:45	08:04		07:06		06:57		05:59	05:30	06:20-06:34/14
	17:03	17:56		18:45		20:37		21:25	22:01	
14	08:44	08:02		07:04		06:54		05:58	05:30	06:20-06:34/14
	17:04	17:58		18:47		20:38		21:27	22:02	
15	08:44	08:00		07:01		06:52		05:56	05:29	06:20-06:35/15
	17:06	18:00		18:49		20:40		21:28	22:02	
16	08:43	07:58	08:34-08:40/6	06:59		06:50		05:55	05:29	06:20-06:36/16
	17:08	18:02		18:50		20:42		21:30	22:03	
17	08:42	07:56	08:31-08:43/12	06:57		06:48		05:53	05:29	06:20-06:36/16
	17:09	18:03		18:52		20:43		21:31	22:03	
18	08:41	07:55	08:29-08:45/16	06:55		06:46		05:52	05:29	06:20-06:36/16
	17:11	18:05		18:54		20:45		21:33	22:03	
19	08:40	07:53	08:28-08:46/18	06:52		06:44		05:51	05:29	06:20-06:37/17
	17:12	18:07		18:55		20:47		21:34	22:04	
20	08:39	07:51	08:26-08:47/21	06:50		06:42		05:49	05:29	06:20-06:37/17
	17:14	18:09		18:57		20:48		21:35	22:04	
21	08:38	07:49	08:26-08:48/22	06:48		06:40		05:48	05:30	06:20-06:37/17
	17:16	18:11		18:59		20:50		21:37	22:04	
22	08:37	07:47	08:25-08:48/23	06:46		06:38		05:47	05:30	06:21-06:38/17
	17:17	18:12		19:00		20:52		21:38	22:05	
23	08:36	07:45	08:25-08:49/24	06:43		06:36		05:45	05:30	06:21-06:38/17
	17:19	18:14		19:02		20:53		21:39	22:05	
24	08:35	07:43	08:25-08:49/24	06:41	07:04-07:05/1	06:34		05:44	05:30	06:21-06:38/17
	17:21	18:16		19:04		20:55		21:41	22:05	
25	08:34	07:40	08:25-08:48/23	06:39	07:01-07:05/4	06:32		05:43	05:31	06:21-06:37/16
	17:22	18:18		19:05		20:56		21:42	22:05	
26	08:32	07:38	08:25-08:48/23	06:37	06:59-07:05/6	06:30		05:42	05:31	06:22-06:38/16
	17:24	18:19		19:07		20:58		21:43	22:05	
27	08:31	07:36	08:26-08:47/21	06:34	06:57-07:05/8	06:28		05:41	05:31	06:22-06:37/15
	17:26	18:21		19:09		21:00		21:45	22:05	
28	08:30	07:34	08:25-08:46/21	06:32	06:54-07:04/10	06:26		05:40	05:32	06:23-06:38/15
	17:27	18:23		19:10		21:01		21:46	22:05	
29	08:28			07:30	07:55-08:03/8	06:24		05:39	05:32	06:23-06:37/14
	17:29			20:12		21:03		21:47	22:05	
30	08:27			07:28	07:58-08:00/2	06:22		05:38	05:33	06:24-06:37/13
	17:31			20:14		21:05		21:48	22:04	
31	08:25			07:25				05:37		
	17:33			20:15				21:49		
Potential sun hours	262	279		367		415		482	495	
Sum of minutes with flicker	0	254		81		53		0	327	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:27-06:36/9	06:12	07:00	07:48	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:29-06:35/6	06:13	07:02 07:34-07:40/6	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:36	06:15	07:03 07:33-07:42/9	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05 07:31-07:42/11	07:52	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06 07:32-07:42/10	07:54	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39	06:19	07:08 07:33-07:41/8	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 07:35-07:41/6	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41	06:23	07:11 07:36-07:39/3	07:59 09:07-09:11/4	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 09:03-09:15/12	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 09:00-09:16/16	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:59-09:18/19	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 07:46-07:53/7	08:06 08:58-09:19/21	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:45-07:54/9	08:07 08:58-09:20/22	08:01	08:42
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 07:45-07:54/9	08:09 08:56-09:19/23	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 07:47-07:54/7	08:11 08:56-09:20/24	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 07:49-07:54/5	08:12 08:56-09:20/24	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37	07:25 07:50-07:52/2	08:14 08:56-09:20/24	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 08:57-09:20/23	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 08:56-09:18/22	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:57-09:17/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:58-09:16/18	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:00-09:15/15	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:02-08:13/11	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:07-08:09/2	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	37	0	92	300	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April	May		June	
1	08:50	08:24		07:32	07:59-08:09/10	07:23	06:20		05:36	18:54-19:56/62
	16:48	17:35		18:25		20:17	21:06		21:51	
2	08:50	08:23		07:30	07:57-08:11/14	07:21	06:18		05:36	18:55-19:57/62
	16:49	17:36		18:26		20:19	21:08		21:52	
3	08:49	08:21		07:28	07:56-08:12/16	07:19	06:16		05:35	18:54-19:57/63
	16:50	17:38		18:28		20:20	21:09		21:53	
4	08:49	08:19		07:26	07:55-08:13/18	07:16	06:15		05:34	18:54-19:58/64
	16:51	17:40		18:30		20:22	21:11		21:54	
5	08:49	08:18		07:24	07:54-08:12/18	07:14	06:13		05:33	18:54-19:59/65
	16:52	17:42		18:32		20:24	21:13		21:55	
6	08:49	08:16		07:21	07:53-08:12/19	07:12	06:11		05:33	18:54-19:59/65
	16:54	17:44		18:33		20:25	21:14		21:56	
7	08:48	08:15		07:19	07:53-08:12/19	07:10	06:09		05:32	18:54-20:00/66
	16:55	17:45		18:35		20:27	21:16		21:56	
8	08:48	08:13		07:17	07:54-08:12/18	07:08	06:08		05:32	18:53-20:00/67
	16:56	17:47		18:37		20:29	21:17		21:57	
9	08:48	08:11		07:15	07:55-08:11/16	07:05	06:06		05:31	18:54-20:00/66
	16:57	17:49		18:39		20:30	21:19		21:58	
10	08:47	08:09		07:13	07:55-08:08/13	07:03	06:04		05:31	18:54-20:01/67
	16:59	17:51		18:40		20:32	21:21		21:59	
11	08:46	08:08		07:10	07:56-08:06/10	07:01	06:03		05:30	18:53-20:01/68
	17:00	17:53		18:42		20:33	21:22		22:00	
12	08:46	08:06		07:08	08:01-08:02/1	06:59	06:01		05:30	18:54-20:01/67
	17:02	17:54		18:44		20:35	21:24		22:00	
13	08:45	08:04		07:06		06:57	05:59		05:30	18:54-20:02/68
	17:03	17:56		18:45		20:37	21:25		22:01	
14	08:44	08:02		07:04	07:35-07:45/10	06:55	05:58	19:16-19:30/14	05:30	18:54-20:02/68
	17:05	17:58		18:47		20:38	21:27		22:02	
15	08:44	08:00		07:02	07:32-07:47/15	06:52	05:56	19:12-19:35/23	05:30	18:54-20:03/69
	17:06	18:00		18:49		20:40	21:28		22:02	
16	08:43	07:58		06:59	07:31-07:48/17	06:50	05:55	19:10-19:38/28	05:29	18:54-20:03/69
	17:08	18:02		18:50		20:42	21:30		22:03	
17	08:42	07:56		06:57	07:29-07:48/19	06:48	05:53	19:07-19:39/32	05:29	18:55-20:03/68
	17:09	18:03		18:52		20:43	21:31		22:03	
18	08:41	07:55		06:55	07:28-07:49/21	06:46	05:52	19:05-19:41/36	05:29	18:55-20:04/69
	17:11	18:05		18:54		20:45	21:33		22:03	
19	08:40	07:53		06:53	07:27-07:49/22	06:44	05:51	19:04-19:43/39	05:29	18:55-20:04/69
	17:12	18:07		18:55		20:47	21:34		22:04	
20	08:39	07:51		06:50	07:27-07:49/22	06:42	05:49	19:03-19:45/42	05:29	18:55-20:04/69
	17:14	18:09		18:57		20:48	21:35		22:04	
21	08:38	07:49		06:48	07:26-07:48/22	06:40	05:48	19:01-19:45/44	05:30	18:55-20:04/69
	17:16	18:11		18:59		20:50	21:37		22:04	
22	08:37	07:47		06:46	07:26-07:48/22	06:38	05:47	19:00-19:47/47	05:30	18:56-20:05/69
	17:17	18:12		19:00		20:52	21:38		22:05	
23	08:36	07:45		06:44	07:27-07:47/20	06:36	05:45	18:59-19:48/49	05:30	18:56-20:05/69
	17:19	18:14		19:02		20:53	21:40		22:05	
24	08:35	07:43		06:41	07:28-07:46/18	06:34	05:44	18:58-19:49/51	05:30	18:56-20:05/69
	17:21	18:16		19:04		20:55	21:41		22:05	
25	08:34	07:41		06:39	07:28-07:43/15	06:32	05:43	18:58-19:50/52	05:31	18:56-20:05/69
	17:22	18:18		19:05		20:56	21:42		22:05	
26	08:32	07:38		06:37	07:30-07:41/11	06:30	05:42	18:57-19:51/54	05:31	18:57-20:05/68
	17:24	18:19		19:07		20:58	21:43		22:05	
27	08:31	07:36		06:34	07:34-07:36/2	06:28	05:41	18:57-19:52/55	05:31	18:56-20:05/69
	17:26	18:21		19:09		21:00	21:45		22:05	
28	08:30	07:34	08:03-08:05/2	06:32		06:26	05:40	18:56-19:52/56	05:32	18:57-20:06/69
	17:27	18:23		19:10		21:01	21:46		22:05	
29	08:28			07:30		06:24	05:39	18:55-19:53/58	05:32	18:57-20:05/68
	17:29			20:12		21:03	21:47		22:05	
30	08:27			07:28		06:22	05:38	18:56-19:55/59	05:33	18:58-20:06/68
	17:31			20:14		21:05	21:48		22:04	
31	08:25			07:25			05:37	18:55-19:55/60		
	17:33			20:15			21:49			
Potential sun hours	262	279		367		415	482		495	
Sum of minutes with flicker	0	2		408		0	799		2018	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:58-20:06/68	06:09	06:57	07:44	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 18:58-20:05/67	06:10	06:59	07:46 08:36-08:44/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 18:59-20:06/67	06:12	07:00	07:48 08:33-08:45/12	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 18:59-20:06/67	06:13	07:02	07:49 08:32-08:47/15	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 18:59-20:05/66	06:15	07:03	07:51 08:31-08:48/17	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 19:00-20:05/65	06:16	07:05	07:53 08:30-08:48/18	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 19:00-20:05/65	06:18	07:06	07:54 08:29-08:48/19	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 19:01-20:05/64	06:20	07:08	07:56 08:29-08:48/19	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 19:02-20:05/63	06:21	07:10	07:57 08:29-08:47/18	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 19:02-20:05/63	06:23	07:11	07:59 08:29-08:46/17	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 19:03-20:04/61	06:24	07:13	08:01 08:30-08:46/16	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 19:03-20:04/61	06:26	07:14	08:02 08:32-08:44/12	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 19:04-20:04/60	06:27	07:16	08:04 08:33-08:41/8	07:57	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45 19:04-20:03/59	06:29	07:17	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 19:05-20:02/57	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47 19:06-20:02/56	06:32	07:21	08:09	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49 19:06-20:01/55	06:33	07:22 08:19-08:29/10	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 19:07-20:00/53	06:35	07:24 08:16-08:30/14	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51 19:08-19:59/51	06:37	07:25 08:15-08:32/17	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 19:08-19:58/50	06:38	07:27 08:14-08:33/19	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 19:10-19:58/48	06:40	07:28 08:12-08:33/21	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 19:11-19:57/46	06:41	07:30 08:12-08:34/22	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 19:12-19:55/43	06:43	07:32 08:11-08:33/22	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 19:13-19:54/41	06:44	07:33 08:11-08:33/22	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 19:15-19:53/38	06:46	07:35 08:10-08:32/22	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 19:16-19:51/35	06:48	07:36 08:11-08:31/20	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 19:18-19:49/31	06:49	07:38 08:12-08:30/18	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 19:21-19:47/26	06:51	07:40 08:12-08:28/16	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 19:24-19:44/20	06:52	07:41 08:15-08:27/12	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 19:28-19:38/10	06:54	07:43 08:17-08:22/5	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	1556	0	240	179	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:11-15:27/16 16:48	08:24 17:35	07:32 08:32-09:09/37 18:25	07:23 19:02-19:30/28 20:17	06:20 21:06	05:36 06:04-06:06/2 21:51
2	08:50 15:12-15:27/15 16:49	08:23 17:36	07:30 08:32-09:09/37 18:26	07:21 19:02-19:31/29 20:19	06:18 21:08	05:36 06:04-06:07/3 21:52
3	08:49 15:14-15:27/13 16:50	08:21 09:07-09:09/2 17:38	07:28 08:32-09:09/37 18:28	07:19 19:01-19:31/30 20:20	06:16 21:09	05:35 06:03-06:06/3 21:53
4	08:49 15:14-15:27/13 16:51	08:19 09:03-09:14/11 17:40	07:26 08:32-09:09/37 18:30	07:17 19:01-19:31/30 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 15:16-15:27/11 16:52	08:18 09:01-09:16/15 17:42	07:24 08:31-09:07/36 18:32	07:14 19:01-19:31/30 20:24	06:13 21:13	05:33 06:02-06:06/4 21:55
6	08:49 15:18-15:25/7 16:54	08:16 08:59-09:17/18 17:44	07:21 08:31-09:07/36 18:33	07:12 19:01-19:30/29 20:25	06:11 21:14	05:33 06:01-06:05/4 21:56
7	08:48 15:21-15:24/3 16:55	08:15 08:57-09:18/21 17:45	07:19 08:32-09:06/34 18:35	07:10 19:01-19:29/28 20:27	06:09 21:16	05:32 06:01-06:05/4 21:56
8	08:48 16:56	08:13 08:57-09:20/23 17:47	07:17 08:32-09:06/34 18:37	07:08 19:02-19:28/26 20:29	06:08 21:17	05:32 06:02-06:05/3 21:57
9	08:48 16:57	08:11 08:56-09:21/25 17:49	07:15 08:33-09:05/32 18:39	07:05 19:02-19:28/26 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 08:55-09:21/26 17:51	07:13 08:33-09:02/29 18:40	07:03 19:03-19:26/23 20:32	06:04 21:21	05:31 21:59
11	08:46 17:00	08:08 08:55-09:22/27 17:53	07:10 08:34-09:01/27 18:42	07:01 19:04-19:24/20 20:33	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 08:54-09:22/28 17:54	07:08 08:36-08:59/23 18:44	06:59 19:06-19:22/16 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 08:54-09:22/28 17:56	07:06 08:38-08:56/18 18:45	06:57 19:08-19:20/12 20:37	05:59 21:25	05:30 22:01
14	08:44 17:05	08:02 08:54-09:22/28 17:58	07:04 08:40-08:52/12 18:47	06:55 20:38	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 08:54-09:22/28 18:00	07:02 18:49	06:52 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 08:54-09:21/27 18:02	06:59 18:50	06:50 20:42	05:55 21:30	05:29 22:03
17	08:42 17:09	07:56 08:55-09:21/26 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03
18	08:41 17:11	07:55 08:55-09:20/25 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:29 22:03
19	08:40 17:12	07:53 08:51-08:53/2 18:07 08:56-09:19/23	06:53 18:55	06:44 20:47	05:51 21:34	05:29 22:04
20	08:39 17:14	07:51 08:45-09:17/32 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04
21	08:38 17:16	07:49 08:42-09:16/34 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04
22	08:37 17:17	07:47 08:40-09:13/33 18:12	06:46 19:00	06:38 20:52	05:47 21:38	05:30 22:05
23	08:36 17:19	07:45 08:38-09:09/31 18:14	06:44 19:02	06:36 20:53	05:46 21:40	05:30 22:05
24	08:35 17:21	07:43 08:37-09:06/29 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05
25	08:34 17:22	07:41 08:36-09:07/31 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05
26	08:32 17:24	07:38 08:35-09:08/33 18:19	06:37 18:15-18:22/7 19:07	06:30 20:58	05:42 21:43	05:31 22:05
27	08:31 17:26	07:36 08:34-09:09/35 18:21	06:34 18:11-18:25/14 19:09	06:28 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 08:32-09:08/36 18:23	06:32 18:08-18:26/18 19:10	06:26 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 19:06-19:28/22 20:12	06:24 21:03	05:39 21:47	05:33 22:05
30	08:27 17:31		07:28 19:05-19:30/25 20:14	06:22 21:05	05:38 21:48	05:33 22:04
31	08:26 17:33		07:25 19:04-19:31/27 20:15		05:37 06:05-06:06/1 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	78	677	542	327	1	27

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:04-19:24/20	07:44 09:15-09:36/21	07:37 08:25-08:51/26	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:10	06:59 19:01-19:24/23	07:46 09:14-09:39/25	07:38 08:26-08:50/24	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:00-19:26/26	07:48 09:11-09:39/28	07:40 08:27-08:50/23	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02 18:59-19:25/26	07:49 09:10-09:41/31	07:42 08:27-08:48/21	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:11/4	06:15	07:03 18:58-19:26/28	07:51 09:09-09:42/33	07:44 08:29-08:47/18	08:31 15:06-15:09/3
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:11/4	06:16	07:05 18:57-19:26/29	07:53 09:08-09:42/34	07:45 08:31-08:46/15	08:33 15:04-15:11/7
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:12/4	06:18	07:06 18:57-19:26/29	07:54 09:07-09:43/36	07:47 08:33-08:44/11	08:34 15:04-15:14/10
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 18:55-19:25/30	07:56 09:07-09:43/36	07:49	08:35 15:03-15:15/12
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 18:56-19:25/29	07:57 09:06-09:43/37	07:50	08:36 15:02-15:16/14
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:14/3	06:23	07:11 18:55-19:24/29	07:59 09:06-09:43/37	07:52	08:37 15:02-15:16/14
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:14/2	06:24	07:13 18:55-19:23/28	08:01 09:06-09:43/37	07:54	08:38 15:01-15:17/16
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:15/2	06:26	07:14 18:55-19:22/27	08:02 09:06-09:43/37	07:56	08:39 15:01-15:18/17
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:15/1	06:27	07:16 18:56-19:21/25	08:04 09:05-09:42/37	07:57	08:40 15:01-15:19/18
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 18:56-19:19/23	08:06 09:06-09:41/35	07:59	08:41 15:02-15:19/17
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 18:58-19:17/19	08:07 09:07-09:41/34	08:01	08:42 15:02-15:20/18
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 18:59-19:14/15	08:09 09:06-09:39/33	08:02	08:43 15:02-15:21/19
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:33	07:22 19:02-19:11/9	08:11 09:07-09:38/31	08:04	08:44 15:03-15:22/19
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 09:09-09:37/28	08:06	08:45 15:03-15:22/19
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14 09:10-09:42/32	08:07	08:45 15:03-15:23/20
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 09:12-09:45/33	08:09	08:46 15:04-15:23/19
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:18 09:13-09:47/34	08:11	08:47 15:04-15:23/19
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 09:17-09:48/31	08:12	08:47 15:05-15:24/19
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 09:26-09:50/24	08:14	08:48 15:05-15:24/19
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:25-09:51/26	08:16	08:48 15:05-15:24/19
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:25-08:51/26	08:17	08:48 15:06-15:26/20
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:25-08:52/27	08:19	08:49 15:07-15:26/19
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 08:23-08:51/28	08:20	08:49 15:07-15:26/19
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 08:23-08:51/28	08:22	08:49 15:08-15:26/18
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 09:22-09:31/9	07:31 08:24-08:52/28	08:23	08:49 15:08-15:26/18
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:09-19:21/12	07:43 09:17-09:34/17	07:33 08:24-08:52/28	08:25	08:50 15:09-15:27/18
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55 19:05-19:22/17		07:35 08:24-08:51/27		08:50 15:10-15:27/17
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	27	29	441	962	138	447

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:49-16:06/17	08:24	07:32	07:23	06:20 19:47-20:12/25	05:36
	16:48 11:36-12:20/44	17:35	18:25	20:17	21:06	21:51
2	08:50 15:50-16:06/16	08:23	07:30	07:21	06:18 19:47-20:11/24	05:36 06:04-06:06/2
	16:49 11:37-12:21/44	17:36	18:26	20:19	21:08	21:52
3	08:49 15:51-16:07/16	08:21	07:28	07:19	06:16 19:47-20:10/23	05:35 06:03-06:06/3
	16:50 11:38-12:21/43	17:38	18:28	20:20	21:10	21:53
4	08:49 15:51-16:07/16	08:19	07:26	07:17	06:15 19:49-20:10/21	05:34 06:02-06:06/4
	16:51 11:37-12:21/44	17:40	18:30	20:22	21:11	21:54
5	08:49 15:52-16:07/15	08:18	07:24	07:14	06:13 19:50-20:09/19	05:33 06:02-06:06/4
	16:52 11:38-12:22/44	17:42	18:32	20:24	21:13	21:55
6	08:49 15:52-16:07/15	08:16	07:21 17:59-18:02/3	07:12	06:11 19:50-20:07/17	05:33 06:01-06:06/5
	16:54 11:39-12:21/42	17:44	18:33	20:25	21:14	21:56
7	08:48 15:53-16:08/15	08:15	07:19 17:56-18:06/10	07:10	06:09 19:53-20:06/13	05:32 06:01-06:07/6
	16:55 11:40-12:22/42	17:45	18:35	20:27	21:16	21:56
8	08:48 15:53-16:07/14	08:13	07:17 17:54-18:08/14	07:08	06:08 19:54-20:04/10	05:32 06:01-06:07/6
	16:56 11:40-12:22/42	17:47	18:37	20:29	21:17	21:57
9	08:48 15:55-16:08/13	08:11	07:15 17:52-18:08/16	07:05	06:06	05:31 06:00-06:07/7
	16:58 11:41-12:22/41	17:49	18:39	20:30	21:19	21:58
10	08:47 15:55-16:08/13	08:09	07:13 17:51-18:09/18	07:03	06:04	05:31 06:00-06:07/7
	16:59 11:42-12:22/40	17:51	18:40	20:32	21:21	21:59
11	08:46 15:56-16:07/11	08:08	07:10 17:51-18:09/18	07:01	06:03	05:31 06:00-06:08/8
	17:00 11:42-12:21/39	17:53	18:42	20:34	21:22	22:00
12	08:46 15:58-16:07/9	08:06	07:08 17:51-18:09/18	06:59	06:01	05:30 05:59-06:07/8
	17:02 11:44-12:22/38	17:54	18:44	20:35	21:24	22:00
13	08:45 16:00-16:06/6	08:04	07:06 17:50-18:08/18	06:57	05:59	05:30 05:59-06:07/8
	17:03 11:45-12:22/37	17:56	18:45	20:37	21:25	22:01
14	08:44 11:46-12:21/35	08:02	07:04 17:51-18:08/17	06:55	05:58	05:30 05:59-06:08/9
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:47-12:21/34	08:00	07:02 17:52-18:07/15	06:52	05:56	05:30 05:59-06:08/9
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:48-12:20/32	07:58	06:59 17:53-18:06/13	06:50	05:55	05:29 05:59-06:08/9
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:49-12:19/30	07:57	06:57 17:55-18:02/7	06:48	05:53	05:29 05:59-06:08/9
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:51-12:18/27	07:55	06:55	06:46	05:52	05:29 05:59-06:08/9
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:53-12:17/24	07:53	06:53	06:44 19:56-20:06/10	05:51	05:29 05:59-06:08/9
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:55-12:16/21	07:51	06:50	06:42 19:53-20:09/16	05:49	05:30 05:59-06:08/9
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:57-12:12/15	07:49	06:48	06:40 19:52-20:10/18	05:48	05:30 05:59-06:08/9
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 12:03-12:05/2	07:47	06:46	06:38 19:50-20:11/21	05:47	05:30 06:00-06:09/9
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:44	06:36 19:49-20:12/23	05:46	05:30 06:00-06:09/9
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41	06:34 19:48-20:13/25	05:44	05:30 06:00-06:09/9
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:41	06:39	06:32 19:47-20:13/26	05:43	05:31 06:01-06:10/9
	17:22	18:18	19:05	20:57	21:42	22:05
26	08:32	07:38	06:37	06:30 19:47-20:13/26	05:42	05:31 06:01-06:10/9
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36	06:35	06:28 19:46-20:13/27	05:41	05:32 06:02-06:11/9
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32	06:26 19:46-20:13/27	05:40	05:32 06:02-06:11/9
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24 19:47-20:13/26	05:39	05:33 06:03-06:11/8
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22 19:47-20:13/26	05:38	05:33 06:03-06:11/8
	17:31		20:14	21:05	21:48	22:04
31	08:26		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	936	0	167	271	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:12/8	06:09	06:57	07:44 18:30-18:48/18	07:37	08:26 15:38-15:49/11
	22:04	21:34	20:33	19:25	17:21	16:42 11:24-12:04/40
2	05:34 06:04-06:12/8	06:10	06:59	07:46 18:30-18:48/18	07:38	08:27 15:38-15:51/13
	22:04	21:32	20:31	19:23	17:19	16:41 11:25-12:05/40
3	05:35 06:05-06:12/7	06:12	07:00	07:48 18:29-18:47/18	07:40	08:29 15:38-15:51/13
	22:04	21:30	20:29	19:21	17:17	16:41 11:24-12:05/41
4	05:36 06:06-06:13/7	06:13 20:07-20:11/4	07:02	07:49 18:30-18:46/16	07:42	08:30 15:38-15:52/14
	22:03	21:29	20:27	19:19	17:16	16:40 11:25-12:07/42
5	05:37 06:07-06:13/6	06:15 20:04-20:15/11	07:03	07:51 18:30-18:45/15	07:44	08:31 15:38-15:53/15
	22:03	21:27	20:24	19:16	17:14	16:40 11:25-12:07/42
6	05:37 06:07-06:12/5	06:17 20:01-20:16/15	07:05	07:53 18:31-18:43/12	07:45	08:33 15:38-15:53/15
	22:02	21:25	20:22	19:14	17:12	16:39 11:25-12:07/42
7	05:38 06:08-06:13/5	06:18 20:00-20:18/18	07:06	07:54 18:33-18:41/8	07:47	08:34 15:39-15:54/15
	22:02	21:24	20:20	19:12	17:11	16:39 11:26-12:09/43
8	05:39 06:09-06:13/4	06:20 19:59-20:19/20	07:08	07:56	07:49	08:35 15:39-15:55/16
	22:01	21:22	20:18	19:10	17:09	16:39 11:26-12:09/43
9	05:40 06:10-06:13/3	06:21 19:57-20:19/22	07:10	07:57	07:50	08:36 15:39-15:55/16
	22:00	21:20	20:15	19:08	17:07	16:38 11:26-12:09/43
10	05:41 06:11-06:13/2	06:23 19:57-20:20/23	07:11	07:59	07:52	08:37 15:39-15:55/16
	22:00	21:18	20:13	19:05	17:06	16:38 11:26-12:10/44
11	05:42 06:12-06:13/1	06:24 19:55-20:20/25	07:13	08:01	07:54	08:38 15:39-15:56/17
	21:59	21:16	20:11	19:03	17:04	16:38 11:26-12:10/44
12	05:43	06:26 19:55-20:21/26	07:14	08:02	07:56	08:39 15:40-15:56/16
	21:58	21:14	20:09	19:01	17:03	16:38 11:26-12:11/45
13	05:44	06:27 19:54-20:20/26	07:16	08:04	07:57	08:40 15:40-15:57/17
	21:57	21:13	20:06	18:59	17:01	16:38 11:27-12:12/45
14	05:45	06:29 19:54-20:21/27	07:17	08:06	07:59	08:41 15:41-15:57/16
	21:56	21:11	20:04	18:57	17:00	16:38 11:27-12:12/45
15	05:46	06:30 19:54-20:20/26	07:19	08:07	08:01	08:42 15:41-15:58/17
	21:56	21:09	20:02	18:55	16:59	16:38 11:28-12:13/45
16	05:48	06:32 19:54-20:20/26	07:21	08:09	08:02	08:43 15:42-15:58/16
	21:55	21:07	20:00	18:52	16:57	16:38 11:28-12:13/45
17	05:49	06:34 19:53-20:19/26	07:22	08:11	08:04	08:44 15:42-15:59/17 11:11-11:13/2
	21:54	21:05	19:57	18:50	16:56	16:38 11:29-12:14/45
18	05:50	06:35 19:54-20:19/25	07:24	08:12	08:06	08:45 15:42-15:59/17 11:09-11:14/5
	21:52	21:03	19:55	18:48	16:55	16:39 11:28-12:14/46
19	05:51	06:37 19:54-20:18/24	07:25	08:14	08:07	08:45 15:43-16:00/17 11:09-11:15/6
	21:51	21:01	19:53	18:46	16:53	16:39 11:29-12:15/46
20	05:52	06:38 19:55-20:18/23	07:27	08:16	08:09 11:38-11:40/2	08:46 15:44-16:00/16 11:10-11:17/7
	21:50	20:59	19:50	18:44	16:52	16:39 11:30-12:16/46
21	05:54	06:40 19:55-20:16/21	07:28	08:18	08:11 11:33-11:48/15	08:47 15:44-16:00/16 11:10-11:17/7
	21:49	20:57	19:48	18:42	16:51	16:40 11:30-12:16/46
22	05:55	06:41 19:56-20:14/18	07:30	08:19	08:12 11:31-11:52/21	08:47 15:45-16:01/16 11:11-11:18/7
	21:48	20:55	19:46	18:40	16:50	16:40 11:31-12:17/46
23	05:56	06:43 19:57-20:12/15	07:32	08:21	08:14 11:29-11:53/24	08:48 15:45-16:01/16 11:11-11:18/7
	21:47	20:53	19:44	18:38	16:49	16:41 11:31-12:17/46
24	05:58	06:44 20:00-20:10/10	07:33	08:23	08:16 11:28-11:55/27	08:48 15:45-16:01/16 11:12-11:18/6
	21:45	20:50	19:41	18:36	16:48	16:41 11:31-12:17/46
25	05:59	06:46	07:35	07:24	08:17 11:27-11:57/30	08:48 15:46-16:03/17 11:13-11:18/5
	21:44	20:48	19:39	17:34	16:47	16:42 11:32-12:18/46
26	06:00	06:48	07:36 18:39-18:44/5	07:26	08:19 11:26-11:58/32	08:49 15:46-16:03/17 11:14-11:17/3
	21:43	20:46	19:37	17:32	16:46	16:43 11:33-12:18/45
27	06:02	06:49	07:38 18:36-18:47/11	07:28	08:20 11:26-12:00/34	08:49 15:47-16:03/16
	21:41	20:44	19:34	17:30	16:45	16:43 11:33-12:18/45
28	06:03	06:51	07:40 18:33-18:47/14	07:30	08:22 11:26-12:01/35	08:49 15:47-16:04/17
	21:40	20:42	19:32	17:28	16:44	16:44 11:33-12:19/46
29	06:05	06:52	07:41 18:32-18:48/16	07:31	08:23 15:40-15:46/6	08:49 15:47-16:04/17
	21:38	20:40	19:30	17:26	16:43 11:25-12:02/37	16:45 11:34-12:19/45
30	06:06	06:54	07:43 18:30-18:48/18	07:33	08:25 15:40-15:48/8	08:50 15:48-16:04/16
	21:37	20:38	19:28	17:25	16:43 11:25-12:03/38	16:46 11:34-12:19/45
31	06:08	06:55		07:35		08:50 15:48-16:05/17
	21:35	20:35		17:23		16:47 11:35-12:20/45
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	56	431	64	105	309	1919

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50 07:13-07:15/2	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48 07:11-07:15/4	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46 07:09-07:14/5	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44 07:07-07:13/6	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42 07:08-07:11/3	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	351	167	303	20	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:24-08:30/6	07:37	08:26 09:00-09:20/20
	22:04	21:34	20:33	19:25 08:09-08:11/2	17:21	16:42
2	05:34	06:11	06:59	07:46 08:22-08:32/10	07:38	08:27 09:01-09:21/20
	22:04	21:32	20:31	19:23	17:19	16:42
3	05:35	06:12	07:00	07:48 08:20-08:33/13	07:40	08:29 09:01-09:20/19
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:19-08:33/14	07:42	08:30 09:02-09:21/19
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:19-08:34/15	07:43	08:31 09:03-09:21/18
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:38	06:17	07:05	07:53 08:18-08:33/15	07:45	08:33 09:04-09:21/17
	22:02	21:25	20:22	19:14	17:12	16:40
7	05:38	06:18	07:07	07:54 08:19-08:32/13	07:47	08:34 09:06-09:21/15
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:32/11	07:49	08:35 09:07-09:21/14
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:29/7	07:50	08:36 09:08-09:21/13
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:50-08:59/9	07:52	08:37 09:09-09:21/12
	22:00	21:18	20:13	19:05 08:24-08:26/2	17:06	16:38
11	05:42	06:24	07:13	08:01 08:48-09:01/13	07:54	08:38 09:10-09:21/11
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:17-19:25/8	08:02 08:47-09:02/15	07:56	08:39 09:11-09:21/10
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:15-19:26/11	08:04 08:45-09:02/17	07:57	08:40 09:12-09:21/9
	21:57	21:13	20:06	18:59 18:24-18:25/1	17:01	16:38
14	05:45	06:29	07:18 19:13-19:27/14	08:06 08:44-09:03/19	07:59	08:41 09:13-09:21/8
	21:56	21:11	20:04	18:57 18:21-18:28/7	17:00	16:38
15	05:47	06:30	07:19 19:12-19:27/15	08:07 08:44-09:03/19	08:01	08:42 09:14-09:21/7
	21:55	21:09	20:02	18:55 18:20-18:27/7	16:59	16:38
16	05:48	06:32	07:21 19:11-19:27/16	08:09 08:44-09:03/19	08:02	08:43 09:15-09:21/6
	21:54	21:07	20:00	18:53 18:19-18:24/5	16:57	16:38
17	05:49	06:34	07:22 19:11-19:27/16	08:11 08:44-09:02/18	08:04	08:44 09:16-09:21/5
	21:53	21:05	19:57	18:50 18:19-18:22/3	16:56	16:39
18	05:50	06:35	07:24 19:10-19:25/15	08:12 08:44-09:02/18	08:06	08:45 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 19:11-19:25/14	08:14 08:45-09:01/16	08:07 09:05-09:09/4	08:45 09:17-09:18/1
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:53	06:38	07:27 19:12-19:23/11	08:16 08:46-09:00/14	08:09 09:04-09:12/8	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29 19:13-19:20/7	08:18 08:48-08:57/9	08:11 09:03-09:14/11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19	08:12 09:02-09:16/14	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43 07:11-07:15/4	07:32	08:21	08:14 09:01-09:16/15	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45 07:11-07:17/6	07:33	08:23	08:16 09:01-09:17/16	08:48 09:19-09:20/1
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 07:12-07:17/5	07:35	07:24	08:17 09:02-09:18/16	08:48 09:22-09:24/2
	21:44	20:48	19:39	17:34	16:47	16:42 09:20-09:21/1
26	06:01	06:48 07:14-07:18/4	07:36	07:26	08:19 09:01-09:18/17	08:49 09:20-09:25/5
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:15-07:17/2	07:38 08:05-08:12/7	07:28	08:20 09:02-09:19/17	08:49 09:20-09:26/6
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 08:04-08:12/8	07:30	08:22 09:02-09:20/18	08:49 09:20-09:26/6
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:06-08:12/6	07:31	08:23 09:01-09:19/18	08:49 09:20-09:27/7
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 08:08-08:12/4	07:33	08:25 09:01-09:20/19	08:49 09:20-09:28/8
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:50 09:20-09:29/9
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	21	152	317	173	273

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 08:57-09:09/12	07:32 17:35-17:51/16	07:23	06:20	05:36 06:16-06:35/19
	16:48	17:35	18:25	20:17	21:06	21:50 20:17-20:40/23
2	08:49	08:22 08:58-09:08/10	07:30 17:35-17:51/16	07:21	06:18	05:36 06:17-06:36/19
	16:49	17:36	18:26	20:19	21:08	21:52 20:17-20:42/25
3	08:49	08:21 08:59-09:06/7	07:28 17:36-17:50/14	07:19	06:16	05:35 06:16-06:35/19
	16:50	17:38	18:28	20:20	21:09	21:53 20:16-20:43/27
4	08:49	08:19	07:26 17:37-17:49/12	07:17	06:15	05:34 06:16-06:35/19
	16:51	17:40	18:30	20:22	21:11	21:54 20:15-20:43/28
5	08:49	08:18	07:24 17:39-17:46/7	07:14	06:13	05:34 06:17-06:35/18
	16:53	17:42	18:32	20:24	21:13	21:55 20:15-20:44/29
6	08:49	08:16	07:21	07:12	06:11	05:33 06:17-06:35/18
	16:54	17:44	18:33	20:25	21:14	21:55 20:14-20:45/31
7	08:48	08:14	07:19	07:10	06:09	05:32 06:18-06:35/17
	16:55	17:45	18:35	20:27	21:16	21:56 20:14-20:46/32
8	08:48	08:13	07:17	07:08	06:08	05:32 06:19-06:36/17
	16:56	17:47	18:37	20:29	21:17	21:57 20:13-20:46/33
9	08:47	08:11	07:15	07:05	06:06	05:31 06:18-06:35/17
	16:58	17:49	18:39	20:30	21:19	21:58 20:14-20:47/33
10	08:47	08:09	07:13	07:03	06:04	05:31 06:19-06:35/16
	16:59	17:51	18:40	20:32	21:21	21:59 20:14-20:48/34
11	08:46	08:08	07:10	07:01	06:03	05:31 06:20-06:35/15
	17:00	17:53	18:42	20:33	21:22	22:00 20:14-20:49/35
12	08:46	08:06	07:08	06:59	06:01	05:30 06:19-06:35/16
	17:02	17:54	18:44	20:35	21:24	22:00 20:13-20:48/35
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:35/15
	17:03	17:56	18:45	20:37	21:25	22:01 20:13-20:49/36
14	08:44	08:02 08:26-08:28/2	07:04	06:55	05:58	05:30 06:20-06:35/15
	17:05	17:58	18:47	20:38	21:27	22:01 20:14-20:49/35
15	08:44	08:00 08:24-08:27/3	07:02	06:52	05:56	05:30 06:21-06:35/14
	17:06	18:00	18:49	20:40	21:28	22:02 20:14-20:50/36
16	08:43	07:58 08:22-08:26/4	06:59	06:50	05:55	05:30 06:21-06:35/14
	17:08	18:02	18:50	20:42	21:30	22:03 20:14-20:50/36
17	08:42	07:56	06:57	06:48	05:53	05:29 06:22-06:35/13
	17:09	18:03	18:52	20:43	21:31	22:03 20:14-20:51/37
18	08:41	07:55	06:55 07:17-07:19/2	06:46	05:52	05:29 06:22-06:35/13
	17:11	18:05	18:54	20:45	21:32	22:03 20:14-20:51/37
19	08:40	07:53	06:53 07:15-07:20/5	06:44	05:51 06:21-06:29/8	05:30 06:22-06:35/13
	17:12	18:07	18:55	20:47	21:34	22:04 20:14-20:51/37
20	08:39	07:51	06:50 07:13-07:20/7	06:42	05:49 06:20-06:30/10	05:30 06:22-06:35/13
	17:14	18:09	18:57	20:48	21:35	22:04 20:14-20:51/37
21	08:38	07:49	06:48 07:10-07:19/9	06:40	05:48 06:19-06:32/13	05:30 06:22-06:35/13
	17:16	18:11	18:59	20:50	21:37	22:04 20:14-20:51/37
22	08:37	07:47 08:10-08:11/1	06:46 07:08-07:18/10	06:38	05:47 06:17-06:32/15	05:30 06:23-06:36/13
	17:17	18:12	19:00	20:52	21:38	22:04 20:15-20:52/37
23	08:36 09:03-09:04/1	07:45 17:41-17:46/5	06:44 07:10-07:17/7	06:36	05:46 06:17-06:32/15	05:30 06:23-06:36/13
	17:19	18:14 08:08-08:12/4	19:02 07:06-07:09/3	20:53	21:39	22:05 20:15-20:52/37
24	08:35 09:02-09:06/4	07:43 17:39-17:49/10	06:41 07:04-07:09/5	06:34	05:44 06:16-06:33/17	05:30 06:23-06:36/13
	17:21	18:16 08:06-08:12/6	19:04	20:55	21:41	22:05 20:15-20:52/37
25	08:34 09:00-09:06/6	07:40 17:37-17:51/14	06:39 07:01-07:07/6	06:32	05:43 06:16-06:34/18	05:31 06:24-06:37/13
	17:22	18:18 08:04-08:12/8	19:05	20:56	21:42	22:05 20:16-20:53/37
26	08:32 08:59-09:08/9	07:38 17:36-17:52/16	06:37 07:02-07:04/2	06:30	05:42 06:16-06:34/18	05:31 06:23-06:37/14
	17:24	18:19 08:02-08:12/10	19:07	20:58	21:43	22:05 20:16-20:53/37
27	08:31 08:57-09:08/11	07:36 17:35-17:51/16	06:34	06:28	05:41 06:15-06:34/19	05:32 06:24-06:38/14
	17:26	18:21 08:03-08:11/8	19:09	21:00	21:45 20:25-20:31/6	22:05 20:16-20:52/36
28	08:30 08:56-09:09/13	07:34 17:35-17:51/16	06:32	06:26	05:40 06:15-06:34/19	05:32 06:24-06:38/14
	17:28	18:23 08:04-08:08/4	19:10	21:01	21:46 20:22-20:34/12	22:05 20:17-20:53/36
29	08:28 08:55-09:09/14		07:30	06:24	05:39 06:16-06:35/19	05:33 06:24-06:39/15
	17:29		20:12	21:03	21:47 20:21-20:37/16	22:05 20:16-20:52/36
30	08:27 08:55-09:09/14		07:28	06:22	05:38 06:16-06:35/19	05:33 06:24-06:39/15
	17:31		20:14	21:05	21:48 20:19-20:38/19	22:04 20:17-20:53/36
31	08:25 08:56-09:09/13		07:25		05:37 06:16-06:35/19	
	17:33		20:15		21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	85	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 08:32-08:41/9	08:43
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 08:34-08:40/6	08:44
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 08:36-08:40/4	08:45
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 08:37-08:38/1	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09	08:46
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14	08:48
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April	May		June
1	08:50	08:24		07:32	17:12-17:37/25	07:23	06:20		05:36
	16:48	17:35		18:25		20:17	21:06		21:50
2	08:49	08:22		07:30	17:12-17:37/25	07:21	06:18		05:36
	16:49	17:36		18:26		20:19	21:08		21:52
3	08:49	08:21		07:28	17:13-17:36/23	07:19	06:16		05:35
	16:50	17:38		18:28		20:20	21:09		21:53
4	08:49	08:19		07:26	17:14-17:36/22	07:17	06:15		05:34
	16:51	17:40		18:30	07:49-07:51/2	20:22	21:11		21:54
5	08:49	08:18		07:24	17:14-17:34/20	07:14	06:13		05:33
	16:52	17:42		18:32	07:46-07:50/4	20:24	21:13		21:55
6	08:49	08:16		07:21	17:16-17:32/16	07:12	06:11	06:36-06:39/3	05:33
	16:54	17:44		18:33	07:44-07:49/5	20:25	21:14		21:55
7	08:48	08:14		07:19	17:18-17:30/12	07:10	06:09	06:34-06:40/6	05:32
	16:55	17:45		18:35	07:43-07:48/5	20:27	21:16		21:56
8	08:48	08:13		07:17	17:22-17:26/4	07:08	06:08	06:32-06:41/9	05:32
	16:56	17:47		18:37		20:28	21:17		21:57
9	08:47	08:11		07:15		07:05	06:06	06:31-06:42/11	05:31
	16:58	17:49		18:39		20:30	21:19		21:58
10	08:47	08:09		07:13		07:03	06:04	06:29-06:42/13	05:31
	16:59	17:51		18:40		20:32	21:20		21:59
11	08:46	08:08	08:32-08:33/1	07:10		07:01	06:03	06:29-06:42/13	05:31
	17:00	17:53		18:42		20:33	21:22		22:00
12	08:46	08:06	08:30-08:34/4	07:08		06:59	06:01	06:28-06:42/14	05:30
	17:02	17:54		18:44		20:35	21:24		22:00
13	08:45	08:04	08:28-08:34/6	07:06		06:57	05:59	06:28-06:42/14	05:30
	17:03	17:56		18:45		20:37	21:25		22:01
14	08:44	08:02	08:26-08:34/8	07:04		06:55	05:58	06:28-06:41/13	05:30
	17:05	17:58		18:47		20:38	21:27		22:01
15	08:44	08:00	08:24-08:34/10	07:02		06:52	05:56	06:29-06:41/12	05:30
	17:06	18:00		18:49		20:40	21:28		22:02
16	08:43	07:58	08:23-08:33/10	06:59		06:50	05:55	06:30-06:40/10	05:30
	17:08	18:02		18:50		20:42	21:30		22:02
17	08:42	07:56	08:25-08:31/6	06:57		06:48	05:53	06:30-06:39/9	05:29
	17:09	18:03		18:52		20:43	21:31		22:03
18	08:41	07:54		06:55		06:46	05:52	06:32-06:37/5	05:29
	17:11	18:05		18:54		20:45	21:32		22:03
19	08:40	07:53		06:53		06:44	05:51		05:29
	17:12	18:07		18:55		20:47	21:34		22:04
20	08:39	07:51	17:22-17:28/6	06:50		06:42	05:49		05:30
	17:14	18:09		18:57		20:48	21:35		22:04
21	08:38	07:49	17:18-17:31/13	06:48		06:40	05:48		05:30
	17:16	18:11		18:59		20:50	21:37		22:04
22	08:37	07:47	17:17-17:33/16	06:46		06:38	05:47		05:30
	17:17	18:12		19:00		20:52	21:38		22:04
23	08:36	07:45	17:15-17:35/20	06:44	07:06-07:07/1	06:36	05:46		05:30
	17:19	18:14	08:08-08:09/1	19:02		20:53	21:39		22:05
24	08:35	07:43	17:14-17:36/22	06:41	07:04-07:07/3	06:34	05:44		05:30
	17:21	18:16		19:04		20:55	21:41		22:05
25	08:33	07:40	17:14-17:37/23	06:39	07:01-07:06/5	06:32	05:43		05:31
	17:22	18:18		19:05	18:38-18:40/2	20:56	21:42		22:05
26	08:32	07:38	17:13-17:38/25	06:37	06:59-07:04/5	06:30	05:42		05:31
	17:24	18:19		19:07	18:40-18:42/2	20:58	21:43		22:05
27	08:31	07:36	17:12-17:37/25	06:34	06:57-06:58/1	06:28	05:41		05:32
	17:26	18:21		19:09		21:00	21:45		22:05
28	08:30	07:34	17:12-17:37/25	06:32	06:55-06:57/2	06:26	05:40		05:32
	17:28	18:23		19:10		21:01	21:46		22:05
29	08:28			07:30		06:24	05:39		05:33
	17:29			20:12		21:03	21:47		22:05
30	08:27			07:28		06:22	05:38		05:33
	17:31			20:14		21:05	21:48		22:04
31	08:25			07:25			05:37		
	17:33			20:15			21:49		
Potential sun hours	262	279		367		415	482		495
Sum of minutes with flicker	0	221		184		0	132		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:38-06:52/14	06:57	07:44	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11 06:39-06:53/14	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12 06:40-06:52/12	07:00	07:48	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13 06:41-06:51/10	07:02	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15 06:43-06:51/8	07:03	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17 06:44-06:49/5	07:05	07:52 17:55-18:05/10	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18 06:46-06:47/1	07:06	07:54 17:53-18:07/14	07:47	08:34
	22:02	21:23	20:20	19:12 08:19-08:25/6	17:11	16:39
8	05:39	06:20	07:08	07:56 17:51-18:09/18	07:49	08:35
	22:01	21:22	20:18	19:10 08:21-08:26/5	17:09	16:39
9	05:40	06:21	07:10	07:57 17:48-18:09/21	07:50	08:36
	22:00	21:20	20:15	19:08 08:22-08:25/3	17:07	16:38
10	05:41	06:23	07:11	07:59 17:47-18:10/23	07:52	08:37
	22:00	21:18	20:13	19:05 08:24-08:25/1	17:06	16:38
11	05:42	06:24	07:13	08:01 17:47-18:11/24	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 17:45-18:10/25	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 17:45-18:10/25	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 17:45-18:10/25	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:44-07:45/1	08:07 17:45-18:10/25	08:01	08:42
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 07:45-07:47/2	08:09 17:44-18:09/25	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22 07:47-07:52/5	08:11 17:45-18:08/23	08:04	08:44
	21:53	21:05	19:57 19:28-19:31/3	18:50	16:56	16:38
18	05:50	06:35	07:24 07:49-07:54/5	08:12 17:46-18:07/21	08:06	08:45
	21:52	21:03	19:55 19:26-19:28/2	18:48 08:38-08:39/1	16:55	16:39
19	05:51	06:37	07:25 07:50-07:54/4	08:14 17:47-18:06/19	08:07	08:45
	21:51	21:01	19:53 19:25-19:26/1	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-07:54/2	08:16 17:47-18:03/16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 17:50-18:01/11	08:11	08:46
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 17:54-17:57/3	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21	08:14	08:47
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 08:57-09:00/3	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:45-06:46/1	06:46	07:35	07:24 07:55-08:02/7	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:42-06:49/7	06:48	07:36	07:26 07:54-08:04/10	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:40-06:50/10	06:49	07:38	07:28 07:54-08:03/9	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:40-06:51/11	06:51	07:40	07:29 07:56-08:04/8	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:39-06:52/13	06:52	07:41	07:31 07:58-08:04/6	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:38-06:52/14	06:54	07:43	07:33 08:00-08:03/3	08:25	08:49
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 06:39-06:53/14	06:55		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	70	64	25	390	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:12-15:51/39	08:24 17:01-17:05/4	07:32	07:23	06:20	05:36
	16:48	17:35 16:20-16:55/35	18:25	20:17	21:06	21:51
2	08:50 15:13-15:52/39	08:23 17:00-17:07/7	07:30	07:21 19:50-19:53/3	06:18	05:36
	16:49	17:36 16:20-16:55/35	18:26	20:19	21:08	21:52
3	08:49 15:14-15:53/39	08:21 17:00-17:09/9	07:28	07:19 19:48-19:55/7	06:16	05:35
	16:50	17:38 16:19-16:56/37	18:28	20:20	21:10	21:53
4	08:49 15:14-15:52/38	08:19 17:01-17:11/10	07:26	07:17 19:47-19:57/10	06:15	05:34
	16:51	17:40 16:19-16:57/38	18:30	20:22	21:11	21:54
5	08:49 15:14-15:53/39	08:18 17:01-17:13/12	07:24	07:14 19:46-19:58/12	06:13	05:33
	16:53	17:42 16:19-16:57/38	18:32	20:24	21:13	21:55
6	08:49 15:14-15:53/39	08:16 17:01-17:15/14	07:21	07:12 19:44-19:59/15	06:11	05:33
	16:54	17:44 16:19-16:57/38	18:33	20:25	21:14	21:56
7	08:48 15:15-15:54/39	08:15 17:02-17:15/13	07:19	07:10 19:44-20:01/17	06:09	05:32
	16:55	17:45 16:19-16:57/38	18:35	20:27	21:16	21:57
8	08:48 15:15-15:54/39	08:13 17:04-17:15/11	07:17	07:08 19:44-20:03/19	06:08	05:32
	16:56	17:47 16:20-16:58/38	18:37	20:29	21:17	21:57
9	08:48 15:16-15:55/39	08:11 17:05-17:13/8	07:15	07:05 19:44-20:03/19	06:06	05:31
	16:58	17:49 16:20-16:58/38	18:39	20:30	21:19	21:58
10	08:47 15:16-15:55/39	08:09 16:20-16:57/37	07:13	07:03 19:44-20:03/19	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47 15:17-15:55/38	08:08 16:20-16:57/37	07:11 18:14-18:17/3	07:01 19:44-20:01/17	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46 15:18-15:56/38	08:06 16:21-16:56/35	07:08 18:13-18:19/6	06:59 19:45-19:59/14	06:01	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 15:18-15:56/38	08:04 16:21-16:56/35	07:06 18:11-18:20/9	06:57 19:47-19:58/11	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45 15:19-15:56/37	08:02 16:22-16:55/33	07:04 18:11-18:22/11	06:55 19:50-19:54/4	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 15:20-15:56/36	08:00 16:23-16:54/31	07:02 18:11-18:24/13	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 15:20-15:56/36	07:58 16:24-16:53/29	06:59 18:11-18:26/15	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 15:21-15:56/35	07:57 16:26-16:52/26	06:57 18:11-18:25/14	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 15:22-15:56/34	07:55 16:28-16:50/22	06:55 18:13-18:24/11	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 15:23-15:56/33	07:53 16:30-16:48/18	06:53 18:15-18:22/7	06:44	05:51	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 15:24-15:56/32	07:51 16:33-16:45/12	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 15:24-15:55/31	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:30-16:38/8	07:47	06:46	06:38	05:47	05:30
	17:17 15:26-15:55/29	18:12	19:00	20:52	21:38	22:05
23	08:36 16:28-16:42/14	07:45	06:44	06:36	05:46	05:30
	17:19 15:27-15:54/27	18:14	19:02	20:53	21:40	22:05
24	08:35 16:26-16:45/19	07:43	06:41	06:34	05:44	05:30
	17:21 15:29-15:54/25	18:16	19:04	20:55	21:41	22:05
25	08:34 16:24-16:46/22	07:41	06:39	06:32	05:43	05:31
	17:22 15:30-15:52/22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:24-16:48/24	07:39	06:37	06:30	05:42	05:31
	17:24 15:33-15:51/18	18:19	19:07	20:58	21:43	22:05
27	08:31 16:22-16:49/27	07:36	06:35	06:28	05:41	05:32
	17:26 15:35-15:48/13	18:21	19:09	21:00	21:45	22:05
28	08:30 16:22-16:51/29	07:34	06:32	06:26	05:40	05:32
	17:28 15:40-15:45/5	18:23	19:10	21:01	21:46	22:05
29	08:28 16:21-16:52/31		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:21-16:53/32		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 17:01-17:03/2		07:26		05:37	
	17:33 16:20-16:54/34		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1158	738	89	167	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:44-20:01/17	07:44 18:52-18:58/6	07:37 16:38-16:40/2	08:26 14:59-15:37/38
	22:04	21:34	20:33	19:25	17:21 15:49-16:27/38	16:42
2	05:34	06:11	06:59 19:42-20:01/19	07:46 18:52-18:56/4	07:38 16:35-16:43/8	08:27 15:00-15:38/38
	22:04	21:32	20:31	19:23	17:19 15:49-16:27/38	16:41
3	05:35	06:12	07:00 19:42-20:01/19	07:48 18:53-18:54/1	07:40 16:32-16:44/12	08:29 14:59-15:38/39
	22:04	21:30	20:29	19:21	17:17 15:49-16:27/38	16:41
4	05:36	06:14	07:02 19:41-20:00/19	07:49	07:42 16:31-16:45/14	08:30 15:00-15:39/39
	22:03	21:29	20:27	19:19	17:16 15:48-16:27/39	16:40
5	05:37	06:15	07:03 19:41-19:58/17	07:51	07:44 16:31-16:44/13	08:31 15:00-15:39/39
	22:03	21:27	20:24	19:16	17:14 15:49-16:27/38	16:40
6	05:37	06:17	07:05 19:40-19:55/15	07:53	07:45 16:30-16:42/12	08:33 15:00-15:39/39
	22:02	21:25	20:22	19:14	17:12 15:49-16:27/38	16:39
7	05:38	06:18	07:07 19:41-19:54/13	07:54	07:47 16:30-16:41/11	08:34 15:01-15:40/39
	22:02	21:24	20:20	19:12	17:11 15:49-16:27/38	16:39
8	05:39	06:20	07:08 19:41-19:51/10	07:56	07:49 16:31-16:39/8	08:35 15:02-15:40/38
	22:01	21:22	20:18	19:10	17:09 15:50-16:26/36	16:39
9	05:40	06:21	07:10 19:42-19:49/7	07:57	07:51 16:31-16:38/7	08:36 15:02-15:41/39
	22:00	21:20	20:15	19:08	17:07 15:50-16:26/36	16:39
10	05:41	06:23	07:11 19:43-19:46/3	07:59	07:52 16:32-16:36/4	08:37 15:02-15:41/39
	22:00	21:18	20:13	19:05	17:06 15:51-16:26/35	16:38
11	05:42	06:24	07:13	08:01	07:54 16:33-16:35/2	08:38 15:03-15:41/38
	21:59	21:16	20:11	19:03	17:04 15:52-16:26/34	16:38
12	05:43	06:26	07:14	08:02	07:56 15:52-16:24/32	08:39 15:03-15:42/39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04	07:57 15:53-16:24/31	08:40 15:03-15:42/39
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:18	08:06	07:59 15:54-16:23/29	08:41 15:04-15:42/38
	21:57	21:11	20:04	18:57	17:00 15:12-15:17/5	16:38
15	05:46	06:30	07:19	08:07	08:01 15:55-16:22/27	08:42 15:05-15:43/38
	21:56	21:09	20:02	18:55	16:59 15:08-15:21/13	16:38
16	05:48	06:32	07:21	08:09	08:03 15:57-16:21/24	08:43 15:05-15:44/39
	21:55	21:07	20:00	18:53	16:57 15:06-15:24/18	16:38
17	05:49	06:34	07:22	08:11	08:04 15:58-16:20/22	08:44 15:06-15:44/38
	21:54	21:05	19:57	18:50	16:56 15:04-15:26/22	16:38
18	05:50	06:35	07:24	08:12	08:06 16:00-16:19/19	08:45 15:06-15:44/38
	21:53	21:03	19:55	18:48	16:55 15:03-15:28/25	16:39
19	05:51	06:37	07:25	08:14	08:08 16:02-16:16/14	08:45 15:07-15:45/38
	21:51	21:01	19:53	18:46	16:53 15:01-15:28/27	16:39
20	05:52	06:38	07:27	08:16	08:09 16:05-16:14/9	08:46 15:07-15:46/39
	21:50	20:59	19:50	18:44	16:52 15:01-15:30/29	16:39
21	05:54	06:40	07:29	08:18	08:11 15:00-15:31/31	08:47 15:07-15:45/38
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 17:03-17:16/13	08:12 15:00-15:32/32	08:47 15:08-15:46/38
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 17:00-17:19/19	08:14 14:59-15:32/33	08:48 15:08-15:47/39
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 18:59-19:04/5	08:23 16:57-17:21/24	08:16 14:59-15:33/34	08:48 15:10-15:48/38
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:56-19:06/10	07:24 15:56-16:22/26	08:17 14:59-15:34/35	08:48 15:10-15:48/38
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:54-19:07/13	07:26 15:54-16:24/30	08:19 14:58-15:34/36	08:49 15:10-15:48/38
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:53-19:08/15	07:28 15:52-16:24/32	08:20 14:59-15:35/36	08:49 15:10-15:48/38
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:52-19:05/13	07:30 15:51-16:25/34	08:22 14:59-15:36/37	08:49 15:10-15:49/39
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:50-19:56/6	07:41 18:52-19:03/11	07:31 15:51-16:25/34	08:23 14:59-15:36/37	08:49 15:11-15:49/38
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:48-19:59/11	07:43 18:51-19:00/9	07:33 15:50-16:26/36	08:25 14:59-15:37/38	08:50 15:11-15:50/39
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:45-19:59/14		07:35 15:50-16:27/37		08:50 15:12-15:50/38
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	215	296	1196	1192

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:36-15:57/21	08:24	07:32 17:51-17:59/8	07:23	06:20 20:36-20:38/2	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 15:37-15:57/20	08:23	07:30 17:52-18:01/9	07:21	06:18 20:35-20:40/5	05:36
	16:49	17:36	18:27	20:19	21:08	21:52
3	08:49 15:38-15:58/20	08:21	07:28 17:53-18:01/8	07:19	06:16 20:34-20:41/7	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49 15:38-15:57/19	08:19	07:26	07:17	06:15 20:34-20:43/9	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 15:40-15:58/18	08:18	07:24	07:14	06:13 20:34-20:44/10	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 16:18-16:20/2	08:16	07:21	07:12	06:11 20:34-20:45/11	05:33
	16:54 15:40-15:57/17	17:44	18:33	20:25	21:14	21:56
7	08:48 16:18-16:22/4	08:15	07:19	07:10	06:09 20:34-20:47/13	05:32
	16:55 15:41-15:58/17	17:45	18:35	20:27	21:16	21:57
8	08:48 16:17-16:23/6	08:13	07:17	07:08	06:08 20:34-20:48/14	05:32
	16:56 15:42-15:57/15	17:47	18:37	20:29	21:18	21:57
9	08:48 16:17-16:25/8	08:11	07:15	07:06	06:06 20:35-20:49/14	05:31
	16:58 15:44-15:57/13	17:49	18:39	20:30	21:19	21:58
10	08:47 16:16-16:26/10	08:09	07:13	07:03	06:04 20:36-20:48/12	05:31
	16:59 15:45-15:56/11	17:51	18:40	20:32	21:21	21:59
11	08:47 16:16-16:27/11	08:08	07:11	07:01	06:03 20:38-20:47/9	05:31
	17:00 15:47-15:55/8	17:53	18:42	20:34	21:22	22:00
12	08:46 16:16-16:29/13	08:06	07:08 18:18-18:19/1	06:59	06:01 20:53-20:54/1	05:30
	17:02 15:51-15:53/2	17:55	18:44	20:35	21:24 20:39-20:45/6	22:00
13	08:45 16:16-16:31/15	08:04	07:06 18:16-18:20/4	06:57	05:59 20:54-20:56/2	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45 16:16-16:32/16	08:02	07:04 18:15-18:22/7	06:55	05:58 20:55-20:57/2	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 16:16-16:34/18	08:00	07:02 18:14-18:24/10	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:16-16:35/19	07:58	06:59 18:14-18:26/12	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:16-16:37/21	07:57	06:57 18:14-18:27/13	06:48	05:54	05:29
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:16-16:39/23	07:55	06:55 18:14-18:28/14	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:16-16:39/23	07:53	06:53 18:16-18:27/11	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 16:17-16:40/23	07:51	06:50 18:18-18:25/7	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:16-16:40/24	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:17-16:40/23	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 16:17-16:41/24	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:18-16:41/23	07:43	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:50-16:51/1	07:41	06:39	06:32	05:43	05:31
	17:22 16:18-16:40/22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:51-16:54/3	07:39 17:52-17:54/2	06:37	06:30	05:42	05:31
	17:24 16:19-16:40/21	18:20	19:07	20:58	21:43	22:05
27	08:31 16:50-16:55/5	07:36 17:52-17:56/4	06:35	06:28	05:41	05:32
	17:26 16:20-16:39/19	18:21	19:09	21:00	21:45	22:05
28	08:30 16:51-16:57/6	07:34 17:51-17:57/6	06:32	06:26	05:40	05:32
	17:28 16:21-16:39/18	18:23	19:10	21:01	21:46	22:05
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33
	17:29 16:22-16:38/16		20:12	21:03	21:47	22:05
30	08:27 16:53-17:01/8		07:28	06:22	05:38	05:33
	17:31 16:25-16:37/12		20:14	21:05	21:48	22:05
31	08:26 16:55-17:01/6		07:26		05:37	
	17:33 16:27-16:35/8		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	639	12	104	0	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 20:49-20:56/7	06:57	07:44 18:56-18:58/2	07:37	08:26 15:58-16:09/11
	22:04	21:34	20:33	19:25	17:21	16:42 15:29-15:37/8
2	05:34	06:11 20:48-20:58/10	06:59	07:46	07:38	08:27 15:59-16:09/10
	22:04	21:32	20:31	19:23	17:19	16:41 15:29-15:39/10
3	05:35	06:12 20:46-20:59/13	07:00	07:48	07:40	08:29 16:00-16:08/8
	22:04	21:30	20:29	19:21	17:17	16:41 15:27-15:40/13
4	05:36	06:14 20:45-20:59/14	07:02	07:49	07:42	08:30 16:02-16:08/6
	22:03	21:29	20:27	19:19	17:16	16:40 15:27-15:42/15
5	05:37	06:15 20:45-20:58/13	07:03	07:51	07:44	08:31 16:03-16:07/4
	22:03	21:27	20:24	19:16	17:14	16:40 15:27-15:43/16
6	05:37	06:17 20:44-20:56/12	07:05	07:53	07:45	08:33 16:04-16:06/2
	22:02	21:25	20:22	19:14	17:12	16:39 15:26-15:43/17
7	05:38	06:18 20:44-20:55/11	07:07	07:54	07:47	08:34 15:27-15:45/18
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20 20:43-20:53/10	07:08	07:56	07:49	08:35 15:27-15:45/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 20:43-20:51/8	07:10	07:58	07:51	08:36 15:26-15:46/20
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23 20:44-20:50/6	07:11	07:59 18:29-18:34/5	07:52	08:37 15:26-15:46/20
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24 20:44-20:48/4	07:13	08:01 18:26-18:36/10	07:54 16:26-16:33/7	08:38 15:26-15:47/21
	21:59	21:16	20:11	19:03	17:04 15:58-16:07/9	16:38
12	05:43	06:26 20:45-20:46/1	07:14	08:02 18:24-18:33/9	07:56 16:24-16:32/8	08:39 15:27-15:48/21
	21:58	21:14	20:09	19:01	17:03 15:55-16:08/13	16:38
13	05:44	06:27	07:16	08:04 18:24-18:31/7	07:57 16:24-16:31/7	08:40 15:27-15:48/21
	21:57	21:13	20:06	18:59	17:01 15:54-16:10/16	16:38
14	05:45	06:29	07:18	08:06 18:24-18:29/5	07:59 16:23-16:29/6	08:41 15:27-15:49/22
	21:57	21:11	20:04	18:57	17:00 15:53-16:11/18	16:38
15	05:46	06:30	07:19	08:07 18:24-18:27/3	08:01 16:23-16:28/5	08:42 15:28-15:50/22
	21:56	21:09	20:02	18:55	16:59 15:53-16:12/19	16:38
16	05:48	06:32	07:21	08:09	08:03 16:24-16:27/3	08:43 15:28-15:50/22
	21:55	21:07	20:00	18:53	16:57 15:52-16:13/21	16:38
17	05:49	06:34	07:22	08:11	08:04 16:24-16:25/1	08:44 15:29-15:51/22
	21:54	21:05	19:57	18:50	16:56 15:52-16:14/22	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45 15:29-15:51/22
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:08 15:51-16:15/24	08:45 15:29-15:52/23
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09 15:52-16:15/23	08:46 15:30-15:53/23
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18	08:11 15:52-16:16/24	08:47 15:30-15:53/23
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19	08:12 15:53-16:16/23	08:47 15:31-15:53/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 19:02-19:08/6	08:21	08:14 15:52-16:16/24	08:48 15:31-15:54/23
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:00-19:10/10	08:23	08:16 15:53-16:16/23	08:48 15:32-15:55/23
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:57-19:11/14	07:24	08:17 15:54-16:15/21	08:48 15:32-15:55/23
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:57-19:10/13	07:26	08:19 15:54-16:14/20	08:49 15:33-15:55/22
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:56-19:08/12	07:28	08:20 15:55-16:13/18	08:49 15:33-15:55/22
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:55-19:05/10	07:30	08:22 15:56-16:12/16	08:49 15:34-15:55/21
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 21:07-21:08/1	06:52	07:41 18:55-19:03/8	07:31	08:23 15:56-16:11/15	08:49 15:34-15:56/22
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06 21:05-21:07/2	06:54	07:43 18:55-19:00/5	07:33	08:25 15:57-16:10/13	08:50 15:35-15:56/21
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 21:05-21:06/1	06:56		07:35		08:50 15:35-15:56/21
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	4	109	78	41	422	658

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
9	08:48 16:58	08:11 16:40-16:54/14 17:49 15:49-16:35/46	07:15 18:39	07:06 20:01-20:05/4 20:30	06:06 18:38-19:58/80 20:39-20:50/11 21:19 07:09-07:43/34	05:31 18:47-19:58/71 21:58 20:59-21:22/23
10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
27	08:31 15:46-16:55/69 17:26	07:36 18:21	06:35 19:09	06:28 18:43-19:53/70 21:00 07:07-07:47/40	05:41 18:41-19:58/77 21:45 20:59-21:13/14	05:32 18:53-20:01/68 22:05 21:04-21:26/22
28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:57/71 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:58/72 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	978	1031	0	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69	06:09 18:48-20:08/80 20:50-21:04/14	06:57 20:01-20:07/6	07:45	07:37 16:11-16:22/11	08:26 15:38-15:53/15
	22:04 21:05-21:27/22	21:34 07:20-07:50/30	20:33	19:25	17:21 15:19-16:04/45	16:42
2	05:35 18:52-20:02/70	06:11 18:48-20:09/81 20:50-21:03/13	06:59 20:00-20:04/4	07:46	07:38 16:09-16:24/15	08:27 15:41-15:52/11
	22:04 21:04-21:27/23	21:32 07:20-07:52/32	20:31	19:23	17:19 15:18-16:05/47	16:42
3	05:35 18:53-20:03/70	06:12 18:48-20:08/80 20:49-21:01/12	07:00 19:59-20:03/4	07:48	07:40 16:08-16:26/18	08:29
	22:04 21:05-21:27/22	21:30 07:19-07:52/33	20:29	19:21	17:18 15:18-16:05/47	16:41
4	05:36 18:53-20:03/70	06:14 18:47-20:07/80 20:49-20:59/10	07:02 19:58-20:00/2	07:49	07:42 15:17-16:26/69	08:30
	22:03 21:05-21:28/23	21:29 07:19-07:54/35	20:27	19:19	17:16	16:40
5	05:37 18:53-20:04/71	06:15 18:48-20:08/80 20:49-20:58/9	07:03	07:51	07:44 15:17-16:27/70	08:31
	22:03 21:06-21:28/22	21:27 07:18-07:54/36	20:24	19:17	17:14	16:40
6	05:38 18:52-20:04/72	06:17 18:48-20:07/79 20:49-20:56/7	07:05	07:53	07:45 15:17-16:28/71	08:33
	22:02 21:05-21:28/23	21:25 07:17-07:54/37	20:22	19:14	17:12	16:40
7	05:38 18:52-20:04/72	06:18 18:48-20:07/79 20:50-20:55/5	07:07	07:54	07:47 15:17-16:28/71	08:34
	22:02 21:05-21:28/23	21:24 07:17-07:55/38	20:20	19:12	17:11	16:39
8	05:39 18:52-20:05/73	06:20 18:48-20:06/78 20:50-20:53/3	07:08	07:56	07:49 15:17-16:29/72	08:35
	22:01 21:06-21:28/22	21:22 07:16-07:55/39	20:18	19:10	17:09	16:39
9	05:40 18:52-20:05/73	06:21 18:49-20:06/77	07:10	07:58	07:51 15:17-16:29/72	08:36
	22:00 21:06-21:28/22	21:20 07:16-07:56/40	20:15	19:08	17:08	16:39
10	05:41 18:52-20:05/73	06:23 18:48-20:05/77	07:11	07:59	07:52 15:17-16:30/73	08:37
	22:00 21:06-21:28/22	21:18 07:15-07:55/40	20:13	19:05	17:06	16:38
11	05:42 18:52-20:06/74	06:24 18:49-20:05/76	07:13	08:01	07:54 15:18-16:30/72	08:38
	21:59 21:07-21:27/20	21:16 07:16-07:56/40	20:11	19:03	17:04	16:38
12	05:43 18:52-20:06/74	06:26 18:49-20:04/75	07:14	08:02	07:56 15:17-16:29/72	08:39
	21:58 21:07-21:27/20	21:14 07:15-07:55/40	20:09	19:01	17:03	16:38
13	05:44 18:52-20:06/74	06:27 18:49-20:03/74	07:16	08:04	07:57 15:18-16:29/71	08:40
	21:57 21:07-21:26/19	21:13 07:14-07:55/41	20:06	18:59	17:01	16:38
14	05:45 18:51-20:07/76	06:29 18:50-20:02/72	07:18	08:06	07:59 15:18-16:29/71	08:41
	21:56 21:08-21:25/17	21:11 07:15-07:55/40	20:04	18:57	17:00	16:38
15	05:47 18:51-20:07/76	06:31 18:50-20:01/71	07:19	08:07	08:01 15:19-16:28/69	08:42
	21:56 21:08-21:24/16	21:09 07:14-07:54/40	20:02	18:55	16:59	16:38
16	05:48 18:51-20:07/76	06:32 18:51-20:00/69	07:21	08:09	08:03 16:06-16:27/21	08:43
	21:55 21:09-21:23/14	21:07 07:15-07:54/39	20:00	18:53	16:57 15:20-16:05/45	16:38
17	05:49 18:51-20:07/76	06:34 18:51-19:59/68	07:22	08:11 18:15-18:22/7	08:04 16:07-16:25/18	08:44
	21:54 21:09-21:22/13	21:05 07:15-07:53/38	19:57	18:50	16:56 15:21-16:04/43	16:39
18	05:50 18:50-20:07/77	06:35 18:52-19:58/66	07:24	08:13 18:14-18:20/6	08:06 16:08-16:24/16	08:45
	21:53 21:10-21:21/11	21:03 07:16-07:53/37	19:55	18:48	16:55 15:22-16:04/42	16:39
19	05:51 18:50-20:07/77	06:37 18:53-19:56/63	07:25	08:14 18:13-18:18/5	08:08 16:09-16:22/13	08:45
	21:51 21:10-21:20/10	21:01 07:16-07:52/36	19:53	18:46	16:54 15:22-16:03/41	16:39
20	05:53 18:50-20:09/79	06:38 18:54-19:55/61	07:27	08:16 18:13-18:17/4	08:09 16:10-16:21/11	08:46
	21:50 21:12-21:20/8	20:59 07:17-07:52/35	19:50	18:44	16:52 15:23-16:03/40	16:39
21	05:54 18:50-20:08/78	06:40 18:54-19:53/59	07:29	08:18 18:12-18:14/2	08:11 16:12-16:20/8	08:47
	21:49 21:13-21:18/5	20:57 07:17-07:50/33	19:48	18:42 16:40-16:46/6	16:51 15:24-16:02/38	16:40
22	05:55 18:50-20:08/78	06:41 18:56-19:52/56	07:30	08:19 16:34-16:51/17	08:12 16:15-16:19/4	08:47
	21:48 21:15-21:17/2	20:55 07:18-07:49/31	19:46	18:40	16:50 15:25-16:02/37	16:40
23	05:56 18:49-20:08/79	06:43 18:57-19:49/52	07:32	08:21 16:31-16:54/23	08:14 15:26-16:01/35	08:48
	21:47	20:53 07:19-07:47/28	19:44	18:38	16:49	16:41
24	05:58 18:50-20:09/79	06:45 18:59-19:48/49	07:33	08:23 16:29-16:57/28	08:16 15:27-16:00/33	08:48
	21:45	20:50 07:21-07:46/25	19:41	18:36	16:48	16:41
25	05:59 18:49-20:09/80	06:46 19:00-19:45/45	07:35	07:24 15:27-15:58/31	08:17 15:28-16:00/32	08:48
	21:44 07:34-07:37/3	20:48 07:22-07:43/21	19:39	17:34	16:47	16:42
26	06:01 18:49-20:09/80	06:48 19:02-19:43/41	07:37	07:26 15:25-16:00/35	08:19 15:29-15:58/29	08:49
	21:43 07:29-07:41/12	20:46 07:25-07:41/16	19:37	17:32	16:46	16:43
27	06:02 18:48-20:08/80 20:55-20:59/4	06:49 19:04-19:40/36	07:38	07:28 15:23-16:00/37	08:20 15:31-15:58/27	08:49
	21:41 07:28-07:44/16	20:44 07:28-07:36/8	19:35	17:30	16:45	16:44
28	06:03 18:49-20:09/80 20:54-21:02/8	06:51 19:07-19:37/30	07:40	07:30 15:22-16:01/39	08:22 15:33-15:57/24	08:49
	21:40 07:26-07:46/20	20:42	19:32	17:28	16:44	16:44
29	06:05 18:48-20:09/81 20:52-21:03/11	06:52 19:10-19:32/22	07:41	07:31 15:21-16:02/41	08:23 15:34-15:56/22	08:49
	21:38 07:24-07:47/23	20:40	19:30	17:27	16:44	16:45
30	06:06 18:48-20:08/80 20:51-21:03/12	06:54 19:19-19:24/5	07:43	07:33 15:20-16:03/43	08:25 15:36-15:55/19	08:50
	21:37 07:23-07:49/26	20:38	19:28	17:25	16:43	16:46
31	06:08 18:48-20:09/81 20:50-21:04/14	06:56 20:04-20:07/3		07:35 15:19-16:04/45		08:50
	21:35 07:22-07:50/28	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	16	369	1634	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 14:50-15:34/44	08:24 08:58-09:29/31	07:32	07:23 19:36-19:52/16	06:20 06:48-07:00/12	05:37 06:40-07:07/27
	16:48 12:37-13:24/47	17:35 17:03-17:05/2	18:25	20:17	21:06	21:51
2	08:50 14:51-15:35/44	08:23 08:57-09:29/32	07:30	07:21 19:34-19:53/19	06:18 06:45-07:03/18	05:36 06:41-07:07/26
	16:49 12:38-13:24/46	17:37 17:04-17:07/3	18:27	20:19	21:08	21:52
3	08:49 14:52-15:35/43	08:21 08:56-09:29/33	07:28	07:19 19:33-19:55/22	06:17 06:44-07:05/21	05:35 06:41-07:06/25
	16:50 12:39-13:25/46	17:38 17:06-17:07/1	18:28	20:20	21:10	21:53
4	08:49 14:52-15:35/43	08:19 08:57-09:31/34	07:26	07:17 19:33-19:57/24	06:15 06:42-07:06/24	05:34 06:43-07:07/24
	16:51 12:39-13:24/45	17:40	18:30	20:22	21:11	21:54
5	08:49 14:53-15:36/43	08:18 08:56-09:31/35	07:24	07:14 19:33-19:58/25	06:13 06:40-07:07/27	05:34 06:43-07:06/23
	16:53 12:40-13:24/44	17:42	18:32	20:24	21:13	21:55
6	08:49 14:53-15:35/42	08:16 08:56-09:31/35	07:22	07:12 19:32-19:56/24	06:11 06:40-07:08/28	05:33 06:44-07:06/22
	16:54 12:41-13:24/43	17:44	18:33	20:25	21:14	21:56
7	08:48 14:54-15:36/42	08:15 08:55-09:31/36	07:19	07:10 19:32-19:55/23	06:09 06:38-07:09/31	05:32 06:44-07:05/21
	16:55 12:42-13:24/42	17:46	18:35	20:27	21:16	21:56
8	08:48 14:54-15:36/42	08:13 08:56-09:32/36	07:17	07:08 19:32-19:54/22	06:08 06:37-07:09/32	05:32 06:45-07:05/20
	16:56 12:43-13:23/40	17:47	18:37	20:29	21:17	21:57
9	08:48 14:55-15:37/42	08:11 08:56-09:32/36	07:15	07:06 19:33-19:53/20	06:06 06:37-07:10/33	05:32 06:46-07:04/18
	16:58 12:45-13:24/39	17:49	18:39	20:30	21:19	21:58
10	08:47 14:55-15:37/42	08:09 08:56-09:31/35	07:13	07:03 19:34-19:52/18	06:04 06:36-07:10/34	05:31 06:47-07:04/17
	16:59 12:46-13:23/37	17:51	18:40	20:32	21:21	21:59
11	08:46 14:56-15:37/41	08:08 08:56-09:31/35	07:11	07:01 19:35-19:51/16	06:03 06:36-07:11/35	05:31 06:48-07:04/16
	17:00 12:47-13:22/35	17:53	18:42	20:34	21:22	22:00
12	08:46 14:57-15:37/40	08:06 08:57-09:31/34	07:08	06:59 19:36-19:48/12	06:01 06:35-07:11/36	05:30 06:49-07:03/14
	17:02 12:49-13:22/33	17:55	18:44	20:35	21:24	22:00
13	08:45 14:58-15:37/39	08:04 08:57-09:30/33	07:06	06:57 19:40-19:44/4	06:00 06:35-07:11/36	05:30 06:49-07:02/13
	17:03 12:51-13:21/30	17:56	18:45	20:37	21:25	22:01
14	08:44 14:58-15:37/39	08:02 08:58-09:29/31	07:04	06:55	05:58 06:34-07:11/37	05:30 06:50-07:02/12
	17:05 12:53-13:20/27	17:58	18:47	20:38	21:27	22:02
15	08:44 14:59-15:37/38	08:00 08:58-09:28/30	07:02	06:53	05:57 06:34-07:11/37	05:30 06:50-07:02/12
	17:06 12:55-13:18/23	18:00	18:49	20:40	21:28	22:02
16	08:43 15:00-15:37/37	07:58 08:59-09:27/28	06:59 18:25-18:26/1	06:50	05:55 06:35-07:12/37	05:30 06:51-07:01/10
	17:08 12:58-13:15/17	18:02	18:51	20:42	21:30	22:03
17	08:42 15:01-15:37/36	07:57 09:00-09:26/26	06:57 18:24-18:27/3	06:48	05:54 06:34-07:11/37	05:30 06:52-07:01/9
	17:09 13:07-13:10/3	18:04	18:52	20:43	21:31	22:03
18	08:41 15:02-15:37/35	07:55 09:02-09:24/22	06:55 18:25-18:29/4	06:46	05:52 06:34-07:11/37	05:30 06:53-07:01/8
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 15:03-15:36/33	07:53 09:04-09:21/17	06:53 18:26-18:31/5	06:44	05:51 06:35-07:11/36	05:30 06:53-07:00/7
	17:13	18:07	18:56	20:47	21:34	22:04
20	08:39 15:05-15:36/31	07:51 09:07-09:18/11	06:50	06:42	05:49 06:35-07:12/37	05:30 06:53-07:00/7
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 15:05-15:35/30	07:49	06:48	06:40	05:48 06:35-07:12/37	05:30 06:54-07:01/7
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 15:07-15:34/27	07:47	06:46	06:38	05:47 06:35-07:10/35	05:30 06:54-07:01/7
	17:17	18:13	19:01	20:52	21:38	22:05
23	08:36 15:09-15:33/24	07:45	06:44	06:36	05:46 06:35-07:10/35	05:30 06:54-07:01/7
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 15:12-15:32/20	07:43	06:41	06:34	05:45 06:36-07:10/34	05:31 06:54-07:02/8
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 15:14-15:30/16	07:41	06:39	06:32	05:43 06:36-07:10/34	05:31 06:54-07:03/9
	17:23 09:06-09:17/11	18:18	19:06	20:57	21:42	22:05
26	08:32 15:19-15:27/8	07:39	06:37	06:30	05:42 06:36-07:09/33	05:31 06:54-07:03/9
	17:24 09:04-09:20/16	18:20	19:07	20:58	21:43	22:05
27	08:31 09:02-09:22/20	07:36	06:35	06:28	05:41 06:37-07:09/32	05:32 06:54-07:04/10
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 09:01-09:24/23	07:34	06:32	06:26	05:40 06:38-07:10/32	05:32 06:53-07:05/12
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:00-09:25/25		07:30 19:42-19:47/5	06:24	05:39 06:39-07:09/30	05:33 06:53-07:06/13
	17:29		20:12	21:03	21:47	22:05
30	08:27 08:59-09:27/28		07:28 19:39-19:49/10	06:22	05:38 06:39-07:08/29	05:33 06:52-07:06/14
	17:31		20:14	21:05	21:48	22:04
31	08:26 08:58-09:27/29		07:26 19:37-19:50/13		05:37 06:39-07:08/29	
	17:33 17:01-17:03/2		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	616	41	245	985	427

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:52-07:07/15	06:09 06:45-07:21/36	06:57 19:34-19:50/16	07:45	07:37 08:26-09:01/35	08:26 14:38-15:19/41
	22:04	21:34	20:33	19:25	17:21	16:42 12:29-13:04/35
2	05:35 06:51-07:08/17	06:11 06:46-07:21/35	06:59 19:32-19:50/18	07:46	07:38 08:26-09:01/35	08:27 14:38-15:20/42
	22:04	21:32	20:31	19:23	17:19	16:42 12:29-13:06/37
3	05:35 06:51-07:09/18	06:12 06:46-07:20/34	07:00 19:31-19:52/21	07:48	07:40 08:26-09:02/36	08:29 14:38-15:20/42
	22:04	21:30	20:29	19:21	17:18	16:41 12:28-13:07/39
4	05:36 06:51-07:10/19	06:14 06:47-07:20/33	07:02 19:29-19:51/22	07:49	07:42 08:25-09:01/36	08:30 14:39-15:21/42
	22:03	21:29	20:27	19:19	17:16	16:40 12:28-13:08/40
5	05:37 06:51-07:11/20	06:15 06:48-07:19/31	07:03 19:29-19:52/23	07:51	07:44 08:25-09:01/36	08:31 14:39-15:21/42
	22:03	21:27	20:24	19:17	17:14	16:40 12:27-13:09/42
6	05:38 06:50-07:11/21	06:17 06:48-07:18/30	07:05 19:28-19:52/24	07:53	07:45 08:26-09:01/35	08:33 14:39-15:21/42
	22:02	21:25	20:22	19:14	17:12	16:40 12:27-13:10/43
7	05:38 06:49-07:12/23	06:18 06:49-07:18/29	07:07 19:28-19:53/25	07:54	07:47 08:26-09:00/34	08:34 14:40-15:23/43
	22:02	21:24	20:20	19:12	17:11	16:39 12:27-13:11/44
8	05:39 06:49-07:13/24	06:20 06:50-07:16/26	07:08 19:27-19:51/24	07:56	07:49 08:27-09:00/33	08:35 14:40-15:23/43
	22:01	21:22	20:18	19:10	17:09 16:36-16:39/3	16:39 12:27-13:12/45
9	05:40 06:49-07:14/25	06:21 06:52-07:15/23	07:10 19:28-19:49/21	07:58	07:50 08:28-09:00/32	08:36 14:40-15:23/43
	22:00	21:20	20:15	19:08	17:08 16:34-16:38/4	16:39 12:27-13:13/46
10	05:41 06:49-07:14/25	06:23 06:53-07:13/20	07:11 19:27-19:46/19	07:59	07:52 08:29-08:59/30	08:37 14:40-15:24/44
	22:00	21:18	20:13	19:05	17:06 16:33-16:36/3	16:38 12:27-13:13/46
11	05:42 06:48-07:15/27	06:24 06:55-07:12/17	07:13 19:28-19:45/17	08:01	07:54 08:30-08:59/29	08:38 14:40-15:24/44
	21:59	21:16	20:11	19:03	17:04 16:33-16:35/2	16:38 12:27-13:14/47
12	05:43 06:48-07:16/28	06:26 06:58-07:08/10	07:14 19:28-19:42/14	08:02	07:56 08:31-08:58/27	08:39 14:41-15:24/43
	21:58	21:14	20:09	19:01	17:03	16:38 12:27-13:15/48
13	05:44 06:48-07:17/29	06:27	07:16 19:30-19:40/10	08:04	07:57 08:32-08:57/25	08:40 14:41-15:25/44
	21:57	21:13	20:06	18:59	17:01	16:38 12:27-13:16/49
14	05:45 06:47-07:17/30	06:29	07:18 19:32-19:37/5	08:06	07:59 08:33-08:56/23	08:41 14:42-15:25/43
	21:56	21:11	20:04	18:57	17:00	16:38 12:27-13:16/49
15	05:47 06:47-07:18/31	06:31	07:19	08:07	08:01 08:35-08:55/20	08:42 14:42-15:26/44
	21:56	21:09	20:02	18:55	16:59	16:38 12:28-13:17/49
16	05:48 06:47-07:18/31	06:32	07:21	08:09	08:02 14:52-15:00/8	08:43 14:43-15:27/44
	21:55	21:07	20:00	18:53	16:57 08:37-08:53/16	16:38 12:28-13:18/50
17	05:49 06:46-07:19/33	06:34	07:22	08:11	08:04 14:48-15:04/16	08:44 14:43-15:27/44
	21:54	21:05	19:57	18:50	16:56 08:40-08:51/11	16:39 12:29-13:19/50
18	05:50 06:46-07:19/33	06:35	07:24	08:12	08:06 14:46-15:06/20	08:45 14:43-15:27/44
	21:52	21:03	19:55	18:48	16:55	16:39 12:28-13:18/50
19	05:51 06:46-07:20/34	06:37	07:25	08:14	08:07 14:43-15:07/24	08:45 14:44-15:28/44
	21:51	21:01	19:53	18:46	16:54	16:39 12:29-13:19/50
20	05:53 06:46-07:21/35	06:38	07:27	08:16	08:09 14:42-15:09/27	08:46 14:45-15:29/44
	21:50	20:59	19:50	18:44	16:52	16:40 12:30-13:20/50
21	05:54 06:46-07:21/35	06:40	07:29	08:18	08:11 14:41-15:11/30	08:47 14:45-15:29/44
	21:49	20:57	19:48	18:42	16:51	16:40 12:30-13:20/50
22	05:55 06:45-07:21/36	06:41	07:30	08:19 09:36-09:50/14	08:12 14:41-15:12/31	08:47 14:46-15:30/44
	21:48	20:55	19:46	18:40	16:50	16:40 12:31-13:21/50
23	05:57 06:45-07:21/36	06:43	07:32	08:21 09:34-09:52/18	08:14 14:39-15:12/33	08:48 14:46-15:30/44
	21:47	20:53	19:44	18:38	16:49	16:41 12:31-13:21/50
24	05:58 06:45-07:22/37	06:45	07:33 19:10-19:15/5	08:23 09:32-09:55/23	08:16 14:39-15:14/35	08:48 14:46-15:30/44
	21:45	20:50	19:41	18:36	16:48	16:41 12:31-13:21/50
25	05:59 06:45-07:22/37	06:46	07:35 19:08-19:12/4	07:24 08:31-08:56/25	08:17 14:39-15:15/36	08:48 14:47-15:31/44
	21:44	20:48	19:39	17:34	16:47 12:46-12:47/1	16:42 12:32-13:22/50
26	06:01 06:45-07:22/37	06:48	07:37 19:07-19:10/3	07:26 08:29-08:58/29	08:19 14:38-15:15/37	08:49 14:47-15:31/44
	21:43	20:46	19:37	17:32	16:46 12:36-12:53/17	16:43 12:33-13:23/50
27	06:02 06:45-07:23/38	06:49	07:38 19:07-19:08/1	07:28 08:28-08:58/30	08:20 14:38-15:16/38	08:49 14:48-15:32/44
	21:41	20:44	19:35	17:30	16:45 12:34-12:57/23	16:44 12:33-13:23/50
28	06:03 06:45-07:22/37	06:51	07:40	07:30 08:27-08:59/32	08:22 14:38-15:17/39	08:49 14:48-15:32/44
	21:40	20:42	19:32	17:28	16:44 12:33-12:59/26	16:44 12:34-13:23/49
29	06:05 06:45-07:22/37	06:52	07:41	07:31 08:26-09:00/34	08:23 14:38-15:17/39	08:49 14:48-15:32/44
	21:38	20:40	19:30	17:27	16:44 12:31-13:01/30	16:45 12:34-13:23/49
30	06:06 06:46-07:22/36	06:54 19:41-19:45/4	07:43	07:33 08:26-09:00/34	08:25 14:38-15:19/41	08:50 14:49-15:33/44
	21:37	20:38	19:28	17:25	16:43 12:30-13:03/33	16:46 12:35-13:23/48
31	06:08 06:46-07:22/36	06:56 19:36-19:48/12		07:35 08:26-09:01/35		08:50 14:49-15:33/44
	21:35	20:35		17:23		16:47 12:36-13:24/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	920	340	272	274	1089	2799

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 11:08-12:05/57	08:24	07:32 07:55-08:07/12	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 11:09-12:06/57	08:22	07:30 07:53-08:09/16	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 11:10-12:06/56	08:21	07:28 07:51-08:10/19	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 11:10-12:06/56	08:19	07:26 07:49-08:11/22	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 11:11-12:06/55	08:18	07:24 07:46-08:10/24	07:14	06:13	05:33
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 11:11-12:06/55	08:16	07:21 07:44-08:11/27	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 11:12-12:06/54	08:15	07:19 07:42-08:11/29	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 11:13-12:05/52	08:13	07:17 07:40-08:11/31	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 11:14-12:06/52	08:11	07:15 07:38-08:12/34	07:05	06:06	05:31
	16:57	17:49	18:38	20:30	21:19	21:58
10	08:47 11:15-12:05/50	08:09	07:13 07:35-08:10/35	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 11:16-12:05/49	08:08	07:10 07:33-08:10/37	07:01	06:03 06:28-06:29/1	05:30 06:00-06:01/1
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 11:18-12:05/47	08:06	07:08 07:31-08:10/39	06:59	06:01 06:26-06:29/3	05:30 05:59-06:00/1
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 11:19-12:04/45	08:04	07:06 07:29-08:09/40	06:57	05:59 06:25-06:29/4	05:30 05:59-06:00/1
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 11:20-12:04/44	08:02	07:04 07:26-08:07/41	06:55	05:58 06:23-06:28/5	05:30 05:59-06:00/1
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:21-12:03/42	08:00	07:02 07:24-08:06/42	06:52	05:56 06:22-06:28/6	05:30 05:59-06:00/1
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:22-12:02/40	07:58	06:59 07:22-08:04/42	06:50	05:55 06:21-06:28/7	05:29 05:59-06:00/1
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:24-12:01/37	07:56	06:57 07:19-08:01/42	06:48	05:53 06:19-06:27/8	05:29 05:59-06:00/1
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:26-12:00/34	07:55	06:55 07:17-07:59/42	06:46	05:52 06:18-06:26/8	05:29 05:59-06:00/1
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:28-11:58/30	07:53	06:53 07:17-07:54/37	06:44	05:51 06:17-06:25/8	05:29 05:59-06:00/1
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:31-11:56/25	07:51	06:50 07:16-07:53/37	06:42	05:49 06:19-06:24/5	05:29 05:59-06:00/1
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:33-11:52/19	07:49	06:48 07:16-07:52/36	06:40	05:48	05:30 06:00-06:01/1
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 11:39-11:47/8	07:47	06:46 07:16-07:52/36	06:38	05:47	05:30 06:00-06:01/1
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:43 07:16-07:51/35	06:36	05:45	05:30 06:00-06:01/1
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41 07:16-07:51/35	06:34	05:44	05:30 06:00-06:01/1
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:40	06:39 07:16-07:49/33	06:32	05:43	05:31 06:01-06:02/1
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38	06:37 07:17-07:48/31	06:30	05:42	05:31 06:01-06:02/1
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:03/3	06:34 07:18-07:47/29	06:28	05:41	05:31 06:02-06:03/1
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:05/8	06:32 07:18-07:44/26	06:26	05:40	05:32 06:02-06:03/1
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 08:20-08:42/22	06:24	05:39	05:32 06:03-06:04/1
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 08:22-08:40/18	06:22	05:38	05:33 06:03-06:04/1
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25 08:25-08:36/11		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	964	11	960	0	55	20

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:05/1	06:09 06:37-06:39/2	06:57	07:44 08:09-08:48/39	07:36	08:26 10:58-11:47/49
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:05/1	06:10	06:59	07:46 08:11-08:49/38	07:38	08:27 10:58-11:48/50
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:12-08:48/36	07:40	08:29 10:57-11:49/52
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02	07:49 08:14-08:48/34	07:42	08:30 10:58-11:50/52
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:48/32	07:43	08:31 10:58-11:51/53
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05	07:52 08:17-08:47/30	07:45	08:33 10:57-11:52/55
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:47/28	07:47	08:34 10:58-11:53/55
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:19	07:08	07:56 08:21-08:47/26	07:49	08:35 10:58-11:54/56
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:45/23	07:50	08:36 10:58-11:54/56
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41	06:23	07:11	07:59 08:24-08:44/20	07:52	08:37 10:58-11:55/57
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:26-08:43/17	07:54	08:38 10:58-11:55/57
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 08:17-08:27/10	08:02 08:28-08:42/14	07:56	08:39 10:58-11:56/58
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 08:14-08:31/17	08:04 08:29-08:39/10	07:57	08:40 10:58-11:57/59
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 08:10-08:32/22	08:06 08:31-08:37/6	07:59	08:41 10:59-11:57/58
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 08:09-08:34/25	08:07	08:01	08:42 10:59-11:58/59
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 08:07-08:35/28	08:09	08:02	08:43 10:59-11:59/60
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 08:05-08:36/31	08:11	08:04	08:44 11:00-12:00/60
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 08:04-08:36/32	08:12	08:06	08:45 11:00-12:00/60
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 08:03-08:37/34	08:14	08:07	08:45 11:00-12:00/60
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 08:03-08:38/35	08:16	08:09 11:14-11:22/8	08:46 11:01-12:01/60
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 08:01-08:37/36	08:17	08:11 11:09-11:28/19	08:47 11:01-12:01/60
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 08:01-08:38/37	08:19	08:12 11:07-11:32/25	08:47 11:02-12:02/60
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 08:00-08:37/37	08:21	08:14 11:04-11:34/30	08:48 11:02-12:02/60
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:35/6	06:44	07:33 08:00-08:37/37	08:23	08:16 11:03-11:37/34	08:48 11:02-12:02/60
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:36/8	06:46	07:35 07:59-08:41/42	07:24	08:17 11:02-11:39/37	08:48 11:04-12:03/59
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:37/8	06:48	07:36 08:01-08:43/42	07:26	08:19 11:01-11:40/39	08:49 11:04-12:04/60
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:38/8	06:49	07:38 08:03-08:46/43	07:28	08:20 11:00-11:42/42	08:49 11:04-12:04/60
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:39/7	06:51	07:40 08:04-08:46/42	07:30	08:22 11:00-11:44/44	08:49 11:05-12:04/59
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:39/6	06:52	07:41 08:06-08:47/41	07:31	08:23 10:59-11:44/45	08:49 11:05-12:04/59
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:39/5	06:54	07:43 08:07-08:47/40	07:33	08:25 10:59-11:46/47	08:50 11:06-12:05/59
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:07 06:36-06:39/3	06:55		07:35		08:50 11:07-12:05/58
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	53	2	631	353	370	1780

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:05-16:14/9 13:09-13:47/38	08:24 14:19-14:52/33	07:32 17:40-17:59/19	07:23 19:11-19:50/39	06:20	05:36
	16:48 13:48-14:59/71	17:35	18:25	20:17	21:06	21:51
2	08:50 16:05-16:15/10 13:10-13:47/37	08:23 14:22-14:49/27	07:30 17:39-18:01/22	07:21 19:11-19:50/39	06:18	05:36
	16:49 13:48-14:59/71	17:36	18:26	20:19	21:08	21:52
3	08:49 16:06-16:17/11 13:11-13:47/36	08:21 14:27-14:45/18	07:28 17:39-18:03/24	07:19 19:10-19:51/41	06:16	05:35 06:03-06:05/2
	16:50 13:49-15:00/71	17:38	18:28	20:20	21:10	21:53
4	08:49 16:05-16:17/12 13:12-13:46/34	08:19	07:26 17:38-18:05/27	07:17 19:10-19:51/41	06:15	05:34 06:02-06:06/4
	16:51 13:49-15:00/71	17:40	18:30	20:22	21:11	21:54
5	08:49 16:06-16:19/13 13:14-13:46/32	08:18	07:24 17:37-18:06/29	07:14 19:10-19:50/40	06:13	05:33 06:02-06:07/5
	16:52 13:50-15:00/70	17:42	18:32	20:24	21:13	21:55
6	08:49 16:05-16:20/15 13:14-13:45/31	08:16	07:21 17:37-18:07/30	07:12 19:09-19:49/40	06:11	05:33 06:01-06:07/6
	16:54 13:50-15:00/70	17:44	18:33	20:25	21:14	21:56
7	08:48 16:06-16:22/16 13:17-13:45/28	08:15	07:19 17:37-18:07/30	07:10 19:09-19:49/40	06:09	05:32 06:01-06:08/7
	16:55 13:51-15:01/70	17:45	18:35	20:27	21:16	21:56
8	08:48 16:06-16:22/16 13:18-13:43/25	08:13	07:17 17:37-18:07/30	07:08 19:10-19:48/38	06:08	05:32 06:01-06:10/9
	16:56 13:51-15:01/70	17:47	18:37	20:29	21:17	21:57
9	08:48 16:06-16:25/19 13:21-13:43/22	08:11	07:15 17:37-18:06/29	07:05 19:10-19:48/38	06:06	05:31 06:00-06:09/9
	16:58 13:52-15:02/70	17:49	18:39	20:30	21:19	21:58
10	08:47 16:06-16:26/20 13:23-13:41/18	08:09	07:13 17:37-18:05/28	07:03 19:11-19:47/36	06:04	05:31 06:00-06:10/10
	16:59 13:52-15:02/70	17:51	18:40	20:32	21:21	21:59
11	08:46 16:06-16:27/21 13:27-13:37/10	08:08	07:10 17:38-18:04/26	07:01 19:11-19:45/34	06:03	05:31 06:00-06:11/11
	17:00 13:53-15:01/68	17:53	18:42	20:34	21:22	22:00
12	08:46 16:07-16:29/22	08:06	07:08 17:39-18:03/24	06:59 19:11-19:44/33	06:01	05:30 05:59-06:11/12
	17:02 13:54-15:02/68	17:54	18:44	20:35	21:24	22:00
13	08:45 16:07-16:31/24	08:04	07:06 17:40-18:01/21	06:57 19:13-19:43/30	05:59 20:55-20:56/1	05:30 05:59-06:11/12
	17:03 13:55-15:02/67	17:56	18:45	20:37	21:25	22:01
14	08:45 16:07-16:32/25	08:02	07:04 17:42-17:59/17	06:55 19:14-19:41/27	05:58 20:56-20:57/1	05:30 05:59-06:12/13
	17:05 13:55-15:02/67	17:58	18:47	20:38	21:27	22:02
15	08:44 16:07-16:34/27	08:00	07:02 17:45-17:56/11	06:52 19:16-19:40/24	05:56	05:30 05:59-06:12/13
	17:06 13:56-15:02/66	18:00	18:49	20:40	21:28	22:02
16	08:43 16:08-16:35/27	07:58	06:59	06:50 19:18-19:37/19	05:55	05:30 05:59-06:13/14
	17:08 13:57-15:02/65	18:02	18:50	20:42	21:30	22:03
17	08:42 16:08-16:36/28	07:57	06:57	06:48 19:20-19:34/14	05:53	05:29 05:59-06:13/14
	17:09 13:57-15:02/65	18:03	18:52	20:43	21:31	22:03
18	08:41 16:09-16:37/28	07:55	06:55	06:46	05:52	05:29 05:59-06:13/14
	17:11 13:58-15:02/64	18:05	18:54	20:45	21:33	22:03
19	08:40 16:09-16:37/28	07:53	06:53	06:44	05:51	05:29 05:59-06:13/14
	17:12 13:59-15:02/63	18:07	18:55	20:47	21:34	22:04
20	08:39 16:10-16:37/27	07:51	06:50	06:42	05:49	05:30 05:59-06:13/14
	17:14 14:00-15:02/62	18:09	18:57	20:48	21:35	22:04
21	08:38 16:10-16:37/27	07:49	06:48	06:40	05:48	05:30 05:59-06:14/15
	17:16 14:01-15:01/60	18:11	18:59	20:50	21:37	22:04
22	08:37 16:11-16:37/26	07:47	06:46	06:38	05:47	05:30 06:00-06:14/14
	17:17 14:02-15:01/59	18:12	19:00	20:52	21:38	22:05
23	08:36 16:12-16:37/25	07:45	06:44 18:28-18:37/9	06:36	05:46	05:30 06:00-06:14/14
	17:19 14:03-15:01/58	18:14	19:02	20:53	21:40	22:05
24	08:35 16:13-16:37/24	07:43	06:41 18:23-18:38/15	06:34	05:44	05:30 06:00-06:14/14
	17:21 14:05-15:01/56	18:16	19:04	20:55	21:41	22:05
25	08:34 16:13-16:36/23	07:41 17:48-17:52/4	06:39 18:21-18:40/19	06:32	05:43	05:31 06:01-06:15/14
	17:22 14:05-15:00/55	18:18	19:05	20:57	21:42	22:05
26	08:32 16:15-16:36/21	07:38 17:46-17:54/8	06:37 18:19-18:42/23	06:30	05:42	05:31 06:01-06:15/14
	17:24 14:07-14:59/52	18:19	19:07	20:58	21:43	22:05
27	08:31 16:16-16:34/18	07:36 17:44-17:56/12	06:35 18:17-18:44/27	06:28	05:41	05:32 06:02-06:15/13
	17:26 14:08-14:58/50	18:21	19:09	21:00	21:45	22:05
28	08:30 16:18-16:34/16	07:34 17:41-17:57/16	06:32 18:15-18:45/30	06:26	05:40	05:32 06:02-06:15/13
	17:28 14:10-14:58/48	18:23	19:10	21:01	21:46	22:05
29	08:28 16:20-16:32/12		07:30 19:14-19:47/33	06:24	05:39	05:33 06:03-06:16/13
	17:29 14:11-14:56/45		20:12	21:03	21:47	22:05
30	08:27 16:24-16:29/5		07:28 19:13-19:49/36	06:22	05:38	05:33 06:03-06:15/12
	17:31 14:14-14:55/41		20:14	21:05	21:48	22:04
31	08:26 14:16-14:53/37		07:26 19:13-19:50/37		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2826	118	596	573	2	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11 22:04	06:09 21:34	06:57 19:10-19:45/35 20:33	07:44 18:19-18:42/23 19:25	07:37 17:21	08:26 15:48-16:09/21 13:10-13:19/9 16:42 13:35-14:44/69
2	05:34 06:04-06:15/11 22:04	06:11 21:32	06:59 19:09-19:45/36 20:31	07:46 18:17-18:43/26 19:23	07:38 17:19	08:27 15:49-16:09/20 13:07-13:23/16 16:41 13:36-14:45/69
3	05:35 06:05-06:15/10 22:04	06:12 21:30	07:00 19:08-19:46/38 20:29	07:48 18:16-18:43/27 19:21	07:40 17:17	08:29 15:49-16:08/19 13:04-13:26/22 16:41 13:35-14:45/70
4	05:36 06:06-06:15/9 22:03	06:14 21:29	07:02 19:07-19:45/38 20:27	07:49 18:15-18:43/28 19:19	07:42 17:16	08:30 15:51-16:08/17 13:03-13:28/25 16:40 13:36-14:46/70
5	05:37 06:07-06:15/8 22:03	06:15 21:27	07:03 19:07-19:46/39 20:24	07:51 18:14-18:44/30 19:16	07:44 17:14	08:31 15:51-16:07/16 13:02-13:30/28 16:40 13:36-14:46/70
6	05:37 06:07-06:14/7 22:02	06:17 21:25	07:05 19:05-19:45/40 20:22	07:53 18:13-18:43/30 19:14	07:45 17:12	08:33 15:51-16:06/15 13:01-13:31/30 16:39 13:36-14:46/70
7	05:38 06:08-06:14/6 22:02	06:18 21:24	07:07 19:05-19:46/41 20:20	07:54 18:13-18:43/30 19:12	07:47 14:05-14:08/3 17:11	08:34 15:53-16:06/13 13:01-13:33/32 16:39 13:37-14:47/70
8	05:39 06:09-06:13/4 22:01	06:20 21:22	07:08 19:04-19:45/41 20:18	07:56 18:13-18:43/30 19:10	07:49 13:57-14:16/19 17:09	08:35 15:53-16:05/12 13:00-13:34/34 16:39 13:37-14:48/71
9	05:40 06:10-06:13/3 22:00	06:21 21:20	07:10 19:05-19:45/40 20:15	07:57 18:12-18:40/28 19:08	07:50 13:53-14:20/27 17:07	08:36 15:54-16:05/11 13:00-13:35/35 16:38 13:37-14:48/71
10	05:41 06:11-06:12/1 22:00	06:23 21:18	07:11 19:04-19:44/40 20:13	07:59 18:13-18:38/25 19:05	07:52 13:50-14:23/33 17:06	08:37 15:54-16:04/10 12:59-13:36/37 16:38 13:37-14:48/71
11	05:42 21:59	06:24 21:16	07:13 19:04-19:43/39 20:11	08:01 18:13-18:36/23 19:03	07:54 13:47-14:25/38 17:04	08:38 15:55-16:04/9 12:59-13:37/38 16:38 13:38-14:49/71
12	05:43 21:58	06:26 21:14	07:14 19:04-19:42/38 20:09	08:02 18:13-18:33/20 19:01	07:56 15:54-16:00/6 17:03 13:45-14:26/41	08:39 15:56-16:04/8 12:59-13:37/38 16:38 13:38-14:49/71
13	05:44 21:57	06:27 21:13	07:16 19:05-19:40/35 20:06	08:04 18:14-18:31/17 18:59	07:57 15:51-16:04/13 17:01 13:43-14:28/45	08:40 15:56-16:04/8 16:38 12:59-14:50/111
14	05:45 21:56	06:29 21:11	07:17 19:04-19:37/33 20:04	08:06 18:15-18:29/14 18:57	07:59 15:50-16:06/16 17:00 13:42-14:30/48	08:41 15:57-16:04/7 16:38 12:59-14:50/111
15	05:46 21:56	06:30 21:09	07:19 19:05-19:35/30 20:02	08:07 18:17-18:27/10 18:55	08:01 15:49-16:07/18 16:59 13:41-14:31/50	08:42 15:58-16:04/6 16:38 12:59-14:51/112
16	05:48 21:55	06:32 21:07	07:21 19:06-19:33/27 20:00	08:09 18:18-18:24/6 18:52	08:02 15:48-16:09/21 16:57 13:40-14:32/52	08:43 15:59-16:04/5 16:38 12:59-14:52/113
17	05:49 21:54	06:34 21:05	07:22 19:07-19:31/24 19:57	08:11 18:21-18:22/1 18:50	08:04 15:47-16:10/23 16:56 13:39-14:34/55	08:44 16:00-16:05/5 16:38 13:00-14:52/112
18	05:50 21:53	06:35 21:03	07:24 19:08-19:28/20 19:55	08:12 18:48	08:06 15:47-16:11/24 16:55 13:39-14:35/56	08:45 16:00-16:04/4 16:39 13:00-14:52/112
19	05:51 21:51	06:37 21:01	07:25 19:10-19:26/16 19:53	08:14 18:46	08:08 15:46-16:11/25 16:53 13:37-14:35/58	08:45 16:00-16:05/5 16:39 13:00-14:53/113
20	05:52 21:50	06:38 20:59	07:27 19:13-19:24/11 19:50	08:16 18:44	08:09 15:46-16:12/26 16:52 13:37-14:36/59	08:46 16:01-16:05/4 16:39 13:01-14:54/113
21	05:54 21:49	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:46-16:13/27 16:51 13:37-14:37/60	08:47 16:01-16:05/4 16:40 13:01-14:54/113
22	05:55 21:48	06:41 20:55	07:30 19:46	08:19 18:40	08:12 15:46-16:13/27 16:50 13:36-14:38/62	08:47 16:02-16:06/4 16:40 13:02-14:55/113
23	05:56 21:47	06:43 20:53	07:32 19:44	08:21 18:38	08:14 15:45-16:13/28 16:49 13:35-14:38/63	08:48 16:02-16:06/4 16:41 13:02-14:55/113
24	05:58 21:45	06:45 20:50	07:33 19:41	08:23 18:36	08:16 15:46-16:14/28 16:48 13:35-14:39/64	08:48 16:02-16:07/5 16:41 13:03-14:55/112
25	05:59 21:44	06:46 19:29-19:31/2 20:48	07:35 19:39	07:24 17:34	08:17 15:46-16:14/28 16:47 13:36-14:40/64	08:48 16:04-16:08/4 16:42 13:03-14:56/113
26	06:00 21:43	06:48 19:23-19:37/14 20:46	07:36 19:37	07:26 17:32	08:19 15:46-16:13/27 16:46 13:35-14:40/65	08:49 16:04-16:08/4 16:43 13:04-14:56/112
27	06:02 21:41	06:49 19:19-19:39/20 20:44	07:38 19:34	07:28 17:30	08:20 15:47-16:13/26 16:45 13:35-14:41/66	08:49 16:04-16:09/5 16:43 13:04-14:56/112
28	06:03 21:40	06:51 19:17-19:42/25 20:42	07:40 18:27-18:36/9 19:32	07:30 17:28	08:22 15:47-16:12/25 16:44 13:35-14:42/67	08:49 16:04-16:10/6 16:44 13:05-14:57/112
29	06:05 21:38	06:52 19:15-19:42/27 20:40	07:41 18:23-18:39/16 19:30	07:31 17:26	08:23 15:47-16:11/24 16:43 13:35-14:42/67	08:49 16:04-16:10/6 16:45 13:06-14:57/111
30	06:06 21:06-21:07/1 21:37	06:54 19:13-19:44/31 20:38	07:43 18:20-18:40/20 19:28	07:33 17:25	08:25 15:48-16:10/22 16:43 13:35-14:43/68	08:50 16:04-16:11/7 16:46 13:06-14:58/112
31	06:08 21:05-21:06/1 21:35	06:56 19:11-19:44/33 20:35		07:35 17:23		08:50 16:04-16:12/8 13:07-13:46/39 16:47 13:47-14:58/71
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	72	152	706	368	1664	3589

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 09:18-09:25/7	07:32 08:04-08:08/4	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:49/1	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46 08:11-08:12/1	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:48/2	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:10-08:12/2	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:45-08:46/1	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42 08:09-08:14/5	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:43-08:46/3	07:23	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43 08:11-08:15/4	08:31
	16:52	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16 08:41-08:45/4	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45 08:13-08:15/2	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:17/2	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13 08:41-08:42/1	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:19/2	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:48-08:56/8	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:46-08:58/12	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08 07:31-07:32/1	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:45-08:59/14	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45 09:14-09:20/6	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04 08:36-08:43/7	07:57 08:44-09:01/17	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:13-09:22/9	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06 08:34-08:44/10	07:59 08:44-09:02/18	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43 09:12-09:23/11	08:00 08:24-08:26/2	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07 08:34-08:45/11	08:01 08:44-09:02/18	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55 08:47-08:53/6	16:59	16:38
16	08:43 09:11-09:24/13	07:58 08:22-08:25/3	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:34-08:54/20	08:02 08:44-09:03/19	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57 08:33-08:39/6	16:38
17	08:42 09:10-09:25/15	07:56 08:20-08:25/5	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11 08:36-08:56/20	08:04 08:44-09:04/20	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56 08:34-08:41/7	16:38
18	08:41 09:10-09:26/16	07:54 08:18-08:23/5	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12 08:38-08:57/19	08:06 08:43-09:03/20	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55 08:36-08:42/6	16:39
19	08:40 09:10-09:27/17	07:52 08:16-08:25/9	06:52	06:44	05:51	05:29	05:51	06:37	07:25	08:14 08:40-08:57/17	08:07 08:44-09:04/20	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53 08:37-08:41/4	16:39
20	08:39 09:09-09:27/18	07:50 08:14-08:25/11	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16 08:42-08:57/15	08:09 08:44-09:04/20	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52 08:39-08:42/3	16:39
21	08:38 09:09-09:28/19	07:48 08:12-08:26/14	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17 08:43-08:56/13	08:11 08:45-09:04/19	08:46
	17:16 09:05-09:06/1	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51 08:41-08:42/1	16:40
22	08:37 09:09-09:29/20	07:46 08:10-08:26/16	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19 08:45-08:56/11	08:12 08:45-09:03/18	08:47
	17:17 09:04-09:07/3	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:10-09:30/20	07:44 08:08-08:26/18	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21 08:47-08:55/8	08:14 08:46-09:03/17	08:47
	17:19 09:03-09:07/4	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:09-09:29/20	07:42 08:06-08:25/19	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22 08:49-08:54/5	08:15 08:47-09:04/17	08:48
	17:21 09:02-09:08/6	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:10-09:30/20	07:40 08:04-08:24/20	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24 07:51-07:56/5	08:17 08:48-09:04/16	08:48
	17:22 09:00-09:07/7	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:11-09:30/19	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26 07:53-07:56/3	08:18 08:49-09:02/13	08:49
	17:24 09:00-09:06/6	18:19 08:14-08:22/8	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:11-09:29/18	07:36 08:02-08:13/11	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28 07:54-07:55/1	08:20 08:51-09:02/11	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:12-09:30/18	07:34 08:02-08:11/9	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:21 08:53-09:02/9	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 09:12-09:29/17		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 08:54-09:00/6	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 09:14-09:28/14		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 09:15-09:27/12		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	329	185	5	0	0	0	0	0	0	172	356	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45 08:16-08:23/7	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:25/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:26/9	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:26/7	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:27/6	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:23-08:27/4	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:26/2	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:27/1	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:38-08:45/7	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:37-08:47/10	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02 08:37-08:48/11	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04 08:36-08:49/13	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41 09:09-09:13/4	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06 08:35-08:49/14	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 09:08-09:14/6	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:50/13	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:06-09:14/8	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09 08:39-08:50/11	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:14/9	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:50/9	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37 09:04-09:15/11	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:51/8	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:03-09:16/13	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:50/6	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:01-09:15/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15 08:46-08:50/4	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:02-09:15/13	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:04-09:15/11	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:04-09:14/10	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:06-09:13/7	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:55/4		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	115	37	0	0	0	0	0	0	0	0	154	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 08:50-08:57/7 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:04-08:10/6 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:57/9 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:06-08:11/5 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:56/10 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:07-08:10/3 17:17	08:29 16:41
4	08:49 16:51	08:19 08:46-08:56/10 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:10/1 17:16	08:30 16:40
5	08:49 16:53	08:18 08:47-08:55/8 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:34 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:18-08:23/5 17:14	08:31 16:40
6	08:48 16:54	08:16 08:49-08:53/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:17-08:25/8 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:40/1 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:16-08:26/10 17:11	08:34 16:39
8	08:48 16:56	08:13 08:38-08:41/3 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:27/10 17:09	08:35 16:39
9	08:47 16:58	08:11 08:36-08:41/5 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 08:19-08:28/9 17:07	08:36 16:39
10	08:47 16:59	08:09 08:34-08:40/6 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:21-08:28/7 17:06	08:37 16:38
11	08:46 17:00	08:07 08:32-08:39/7 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:22-08:27/5 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:24-08:27/3 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:43 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:55	08:44 16:39
19	08:40 17:12	07:52 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:50 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:48 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 18:42	08:11 16:51	08:46 16:40
22	08:37 17:17	07:46 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:47 16:41
24	08:35 17:21	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 18:36	08:15 16:48	08:48 16:41
25	08:33 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 17:32	08:18 16:46	08:48 16:43
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:29 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 16:44	08:49 16:44
29	08:28 08:54-08:55/1 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 08:53-08:56/3 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 08:04-08:06/2 17:25	08:24 16:43	08:49 16:46
31	08:25 08:51-08:56/5 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 08:02-08:09/7 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April	May	June
1	08:49	09:20-09:26/6	08:24	08:50-08:54/4	07:32	07:55-08:17/22	07:23	06:20	05:36
	16:48		17:35		18:25		20:17	21:06	21:50
2	08:49	09:20-09:27/7	08:22	08:48-08:52/4	07:30	07:53-08:18/25	07:21	06:18	05:36
	16:49		17:36		18:26		20:19	21:08	21:51
3	08:49	09:20-09:27/7	08:21		07:28	07:51-07:52/1	07:19	06:16	05:35
	16:50		17:38		18:28	07:53-08:19/26	20:20	21:09	21:53
4	08:49	09:19-09:26/7	08:19		07:26	07:49-08:19/30	07:17	06:15	05:34
	16:51		17:40		18:30		20:22	21:11	21:54
5	08:49	09:20-09:26/6	08:18		07:24	07:46-08:18/32	07:14	06:13	05:34
	16:53		17:42		18:32		20:24	21:13	21:54
6	08:49	09:20-09:25/5	08:16		07:21	07:44-08:18/34	07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48	09:23-09:24/1	08:14		07:19	07:42-08:18/36	07:10	06:09	05:32
	16:55		17:45		18:35		20:27	21:16	21:56
8	08:48		08:13		07:17	07:40-08:18/38	07:08	06:08	05:32
	16:56		17:47		18:37		20:28	21:17	21:57
9	08:47		08:11		07:15	07:38-08:17/39	07:05	06:06	05:31
	16:58		17:49		18:39		20:30	21:19	21:58
10	08:47		08:09		07:13	07:37-08:15/38	07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46		08:08		07:10	07:38-08:14/36	07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46		08:06		07:08	07:39-07:52/13	06:59	06:01	05:30
	17:02		17:54		18:44	07:54-08:13/19	20:35	21:24	22:00
13	08:45		08:04		07:06	07:40-07:50/10	06:57	05:59	05:30
	17:03		17:56		18:45	07:56-08:10/14	20:37	21:25	22:01
14	08:44		08:02		07:04	07:58-08:06/8	06:55	05:58	05:30
	17:05		17:58		18:47		20:38	21:27	22:01
15	08:44		08:00		07:02		06:52	05:56	05:30
	17:06		18:00		18:49		20:40	21:28	22:02
16	08:43		07:58	08:22-08:23/1	06:59		06:50	05:55	05:30
	17:08		18:02	17:32-17:34/2	18:50		20:42	21:30	22:02
17	08:42		07:56	08:20-08:23/3	06:57		06:48	05:53	05:29
	17:09		18:03	17:32-17:36/4	18:52		20:43	21:31	22:03
18	08:41		07:54	08:18-08:22/4	06:55		06:46	05:52	05:29
	17:11		18:05	17:33-17:38/5	18:54		20:45	21:32	22:03
19	08:40		07:53	08:16-08:21/5	06:53		06:44	05:51	05:30
	17:12		18:07	17:34-17:40/6	18:55		20:47	21:34	22:04
20	08:39		07:51	08:16-08:19/3	06:50		06:42	05:49	05:30
	17:14		18:09		18:57		20:48	21:35	22:04
21	08:38		07:49		06:48		06:40	05:48	05:30
	17:16		18:11		18:59		20:50	21:37	22:04
22	08:37		07:47		06:46		06:38	05:47	05:30
	17:17		18:12		19:00		20:51	21:38	22:04
23	08:36		07:45		06:44		06:36	05:46	05:30
	17:19		18:14		19:02		20:53	21:39	22:05
24	08:35		07:43	08:06-08:08/2	06:41		06:34	05:44	05:30
	17:21		18:16		19:04		20:55	21:41	22:05
25	08:33		07:40	08:04-08:08/4	06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32		07:38	08:02-08:13/11	06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31		07:36	08:00-08:15/15	06:34		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30		07:34	07:57-08:16/19	06:32		06:26	05:40	05:32
	17:28		18:23		19:10		21:01	21:46	22:05
29	08:28				07:30		06:24	05:39	05:33
	17:29				20:12		21:03	21:47	22:04
30	08:27	08:53-08:55/2			07:28		06:22	05:38	05:33
	17:31				20:14		21:05	21:48	22:04
31	08:25	08:51-08:54/3			07:25			05:37	
	17:33				20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	44		92		421		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40 18:07-18:10/3	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38 18:04-18:10/6	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36 18:03-18:08/5	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34 17:02-17:05/3	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32 17:01-17:03/2	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	496	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-08:57/7 17:35 09:06-09:28/22	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50
2	08:49 16:49	08:22 08:48-08:56/8 17:36 09:07-09:27/20	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51
3	08:49 16:50	08:21 08:46-08:55/9 17:38 09:08-09:26/18	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52
4	08:49 16:51	08:19 08:45-08:55/10 17:40 09:10-09:25/15	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53
5	08:49 16:53	08:18 08:43-08:55/12 17:42 09:13-09:22/9	07:24 18:32	07:14 20:24	06:13 21:13	05:34 21:54
6	08:49 16:54	08:16 08:41-08:56/15 17:44	07:21 07:44-07:45/1 18:33	07:12 20:25	06:11 21:14	05:33 21:55
7	08:48 16:55	08:14 08:39-08:56/17 17:45	07:19 07:42-07:44/2 18:35	07:10 20:27	06:09 21:16	05:32 21:56
8	08:48 16:56	08:13 08:38-08:56/18 17:47	07:17 07:40-07:42/2 18:37	07:08 20:28	06:08 21:17	05:32 21:57
9	08:47 09:17-09:18/1 16:58	08:11 08:36-08:56/20 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58
10	08:47 09:16-09:18/2 16:59	08:09 08:34-08:55/21 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59
11	08:46 09:15-09:18/3 17:00	08:07 08:37-08:55/18 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59
12	08:46 09:14-09:19/5 17:02 16:27-16:28/1	08:06 08:38-08:54/16 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00
13	08:45 09:14-09:19/5 17:03 16:26-16:30/4	08:04 08:39-08:52/13 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01
14	08:44 09:13-09:21/8 17:05 16:28-16:32/4	08:02 08:42-08:50/8 17:58	07:04 18:47	06:55 20:38	05:58 21:27	05:30 22:01
15	08:44 09:12-09:22/10 17:06 16:28-16:34/6	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02
16	08:43 09:11-09:23/12 17:08 16:28-16:36/8	07:58 08:22-08:23/1 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02
17	08:42 09:10-09:24/14 17:09 16:28-16:37/9	07:56 08:20-08:22/2 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:30 22:03
18	08:41 09:09-09:25/16 17:11 16:29-16:39/10	07:54 08:18-08:19/1 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:30 22:03
19	08:40 09:08-09:26/18 17:12 16:30-16:41/11	07:53 18:07	06:53 18:55	06:44 20:47	05:51 21:34	05:30 22:04
20	08:39 09:06-09:26/20 17:14 16:29-16:42/13	07:51 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04
21	08:38 09:05-09:27/22 17:16 16:31-16:44/13	07:49 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04
22	08:37 09:04-09:28/24 17:17 16:32-16:44/12	07:47 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04
23	08:36 09:03-09:28/25 17:19 16:33-16:44/11	07:45 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:05
24	08:35 09:02-09:28/26 17:21 16:35-16:42/7	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05
25	08:33 09:02-09:29/27 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05
26	08:32 09:03-09:29/26 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05
27	08:31 09:03-09:29/26 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:45	05:32 22:05
28	08:30 08:56-08:57/1 17:28 09:03-09:30/27	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05
29	08:28 08:54-08:57/3 17:29 09:03-09:29/26		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04
30	08:27 08:53-08:58/5 17:31 09:05-09:29/24		07:28 20:14	06:22 21:05	05:38 21:48	05:33 22:04
31	08:25 08:51-08:57/6 17:33 09:05-09:28/23		07:25 20:15		05:37 21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	514	280	5	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:19/2	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54	08:19-08:21/2	07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55	16:09-16:16/7	16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53	16:07-16:18/11	16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52	16:07-16:19/12	16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51	16:07-16:20/13	16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50	16:06-16:18/12	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49	16:06-16:17/11	16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48	16:06-16:16/10	16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47	16:06-16:15/9	16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46	16:06-16:14/8	16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45	16:07-16:13/6	16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44	16:07-16:12/5	16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44	16:08-16:11/3	16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43	16:09-16:11/2	16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	63		728		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:31-09:50/19	08:24	07:32	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:32-09:51/19	08:22	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:31-09:50/19	08:21	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49 09:33-09:51/18	08:19	07:26	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49 09:34-09:51/17	08:18	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:34-09:50/16	08:16	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:35-09:51/16	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:36-09:50/14	08:13 08:38-08:39/1	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:38-09:50/12	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47 09:39-09:49/10	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:16/1	08:07	07:10	07:01	06:03	05:31
	17:00 09:41-09:48/7	17:53	18:42	20:33	21:22	21:59
12	08:46 09:14-09:17/3	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:18/4	08:04	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:19/6	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:20/8	08:00	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:20/9	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:21/11	07:56	06:57	06:48	05:54	05:30
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:21/12	07:54	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:22/14	07:52	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:22/15	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:21/16	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:05-09:21/16	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:06-09:22/16	07:45	06:43	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:06-09:20/14	07:42 08:06-08:07/1	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:08-09:20/12	07:40 08:04-08:06/2	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 08:59-09:01/2	07:38	06:37	06:30	05:42	05:31
	17:24 09:09-09:19/10	18:19	19:07	20:58	21:43	22:05
27	08:31 08:57-09:00/3	07:36	06:34	06:28	05:41	05:32
	17:26 09:11-09:17/6	18:21	19:09	21:00	21:44	22:05
28	08:30 08:56-09:00/4	07:34	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 08:54-08:58/4		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:04	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	353	5	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44	07:36	08:26 08:57-08:58/1
	22:04	21:33	20:33	19:25	17:21	16:42 09:23-09:30/7
2	05:34	06:11	06:59	07:46	07:38	08:27 09:22-09:32/10
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48	07:40 08:08-08:09/1	08:29 09:21-09:33/12
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49	07:42 08:09-08:10/1	08:30 09:21-09:35/14
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51	07:43	08:31 09:21-09:36/15
	22:02	21:27	20:24	19:16	17:14	16:40
6	05:38	06:17	07:05	07:52	07:45	08:32 09:20-09:36/16
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54	07:47	08:34 09:20-09:37/17
	22:01	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56	07:49	08:35 09:21-09:39/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57	07:50	08:36 09:21-09:39/18
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59	07:52	08:37 09:21-09:40/19
	21:59	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01	07:54	08:38 09:21-09:40/19
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02	07:55	08:39 09:21-09:41/20
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04	07:57 08:26-08:30/4	08:40 09:21-09:41/20
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06	07:59 08:28-08:32/4	08:41 09:22-09:42/20
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07	08:01 08:30-08:33/3	08:42 09:22-09:43/21
	21:55	21:09	20:02	18:55	16:59 08:44-08:50/6	16:38
16	05:48	06:32	07:21	08:09 08:35-08:36/1	08:02 08:32-08:34/2	08:43 09:23-09:44/21
	21:54	21:07	19:59	18:52	16:57 08:42-08:52/10	16:38 09:17-09:19/2
17	05:49	06:34	07:22	08:11 08:36-08:37/1	08:04 08:42-08:54/12	08:44 09:23-09:44/21
	21:53	21:05	19:57	18:50	16:56	16:39 09:17-09:20/3
18	05:50	06:35	07:24	08:12	08:06 08:40-08:54/14	08:44 09:23-09:44/21 09:16-09:21/5
	21:52	21:03	19:55	18:48	16:55	16:39 15:52-15:54/2
19	05:51	06:37	07:25	08:14	08:07 08:40-08:56/16	08:45 09:24-09:45/21 09:17-09:22/5
	21:51	21:01	19:53	18:46	16:53	16:39 15:53-15:55/2
20	05:53	06:38	07:27	08:16	08:09 08:40-08:56/16	08:46 09:25-09:46/21 09:18-09:23/5
	21:50	20:59	19:50	18:44	16:52	16:39 15:52-15:56/4
21	05:54	06:40	07:28	08:17	08:11 08:41-08:57/16	08:46 09:24-09:46/22 09:18-09:23/5
	21:49	20:57	19:48	18:42	16:51	16:40 15:53-15:57/4
22	05:55	06:41	07:30	08:19	08:12 08:43-08:58/15	08:47 09:25-09:47/22 09:19-09:24/5
	21:48	20:54	19:46	18:40	16:50	16:40 15:53-15:57/4
23	05:56	06:43	07:32	08:21	08:14 08:44-08:58/14	08:47 09:26-09:47/21 09:19-09:24/5
	21:46	20:52	19:43	18:38	16:49	16:41 15:54-15:58/4
24	05:58	06:44	07:33	08:23	08:15 08:46-08:58/12	08:48 09:26-09:47/21 09:19-09:24/5
	21:45	20:50	19:41	18:36	16:48	16:41 15:54-15:57/3
25	05:59	06:46	07:35	07:24	08:17 08:48-08:59/11	08:48 09:27-09:48/21 09:20-09:25/5
	21:44	20:48	19:39	17:34	16:47	16:42 15:55-15:57/2
26	06:00	06:48	07:36	07:26	08:18 08:49-08:58/9	08:49 09:27-09:48/21
	21:42	20:46	19:37	17:32	16:46	16:43 09:20-09:25/5
27	06:02	06:49	07:38	07:28	08:20 08:51-08:59/8	08:49 09:27-09:48/21
	21:41	20:44	19:34	17:30	16:45	16:43 09:21-09:24/3
28	06:03	06:51	07:40	07:29	08:22 08:53-08:59/6	08:49 09:28-09:49/21
	21:40	20:42	19:32	17:28	16:44	16:44 09:23-09:24/1
29	06:05	06:52	07:41	07:31	08:23 08:54-08:59/5	08:49 09:28-09:49/21
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43	07:33	08:24 08:56-08:59/3	08:49 09:29-09:49/20
	21:37	20:37	19:28	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:30-09:50/20
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	0	2	188	662

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:48/28	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 09:00-09:33/33
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:00-09:34/34
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:00-09:35/35
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:14/5	08:30 09:02-09:36/34
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43 08:11-08:16/5	08:31 09:03-09:36/33
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45 08:13-08:17/4	08:33 09:04-09:36/32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:18/3	08:34 09:06-09:37/31
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:18/1	08:35 09:07-09:38/31
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:38/30
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:38/29
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:39/29
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56 16:26-16:30/4	08:39 09:11-09:39/28
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04 08:32-08:34/2	07:57 16:24-16:31/7	08:40 09:12-09:39/27
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06 08:31-08:37/6	07:59 16:23-16:29/6	08:41 09:13-09:40/27
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30	05:47	06:30	07:19	08:07 08:33-08:38/5	08:01 16:23-16:28/5	08:42 09:14-09:40/26
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:39/4	08:02 08:38-08:42/4	08:43 09:15-09:41/26
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57 16:23-16:27/4	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04 08:36-08:44/8	08:44 09:16-09:42/26
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56 16:22-16:24/2	16:39
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:36-08:46/10	08:44 09:16-09:41/25
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55 16:22-16:23/1	16:39
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:46/9	08:45 09:17-09:42/25
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:39-08:47/8	08:46 09:18-09:43/25
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:48/7	08:46 09:18-09:43/25
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:49/6	08:47 09:19-09:44/25
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:55	19:46	18:40	16:50 09:16-09:22/6	16:40
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:49/5	08:47 09:19-09:44/25
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49 09:13-09:24/11	16:41
24	08:35 09:02-09:12/10	07:43 08:06-08:07/1	06:41	06:34	05:44	05:31	05:58	06:45	07:33	08:23	08:15 08:46-08:49/3	08:48 09:19-09:44/25
	17:21 16:48-16:49/1	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48 09:12-09:26/14	16:41
25	08:33 09:02-09:10/8	07:40 08:04-08:07/3	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48 09:20-09:45/25
	17:22 16:49-16:52/3	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47 09:12-09:28/16	16:42
26	08:32 09:06-09:08/2	07:38 08:02-08:07/5	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19 09:11-09:29/18	08:49 09:20-09:46/26
	17:24 16:50-16:54/4	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 16:50-16:55/5	07:36 08:00-08:06/6	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 09:11-09:30/19	08:49 09:20-09:46/26
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30 16:51-16:58/7	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 09:04-09:06/2	08:49 09:20-09:46/26
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44 09:11-09:32/21	16:44
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 09:01-09:08/7	08:49 09:20-09:47/27
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44 09:10-09:32/22	16:45
30	08:27 16:55-16:59/4		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:01-09:33/32	08:49 09:20-09:47/27
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:56		07:35		08:49 09:20-09:48/28
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	611	39	0	0	0	0	0	0	0	19	277	871

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: RIN_WT01 - Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18	05:35	05:34	06:10	06:59	07:46	07:38	08:28
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:50	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:44	08:32
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:57	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:18	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:51	08:36
	16:57	17:49	18:39	20:30	21:19	21:58	22:01	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:47	08:08	07:10	07:01	06:03	05:30	05:42	06:24	07:13	08:01	07:54	08:39
	17:00	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:40
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:41
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:45	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:57	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:21	08:09	08:03	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	20:00	18:52	16:57	16:38
17	08:42	07:57	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:04	21:53	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:08	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:36	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:05	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:49
	17:22	18:18	19:05	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:44	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:05	06:52	07:41	07:31	08:23	08:50
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:05	21:37	20:38	19:28	17:25	16:43	16:46
31	08:26		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:50		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:41/2	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:39/2	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:34/2	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08 07:33-07:35/2	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	10	0	0	0	5	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12 06:40-06:41/1	07:00 07:26-07:32/6	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:32/5	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03 07:29-07:33/4	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:36/2	06:11	05:33	05:37	06:16	07:05 07:30-07:32/2	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:36/4	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:35/5	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:34/6	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04 06:29-06:30/1	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55 07:17-07:18/1	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52 07:15-07:18/3	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50 07:13-07:17/4	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48 07:11-07:14/3	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45	05:30	05:56	06:43	07:31 07:56-08:00/4	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33 07:58-08:01/3	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:15/3	07:35 07:59-08:01/2	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	11	25	1	0	0	9	26	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June
1	08:49	08:24	07:32		07:23	07:45-07:46/1	06:20		05:36
	16:48	17:34	18:25		20:17		21:06		21:50
2	08:49	08:22	07:30		07:21		06:18		05:35
	16:49	17:36	18:26		20:18		21:08		21:51
3	08:49	08:21	07:28		07:19		06:16		05:35
	16:50	17:38	18:28		20:20		21:09		21:53
4	08:49	08:19	07:26		07:16	07:39-07:40/1	06:14		05:34
	16:51	17:40	18:30		20:22		21:11		21:54
5	08:49	08:18	07:23		07:14	07:37-07:38/1	06:13		05:33
	16:52	17:42	18:31		20:23		21:13		21:54
6	08:49	08:16	07:21		07:12		06:11		05:33
	16:53	17:43	18:33		20:25		21:14		21:55
7	08:48	08:14	07:19		07:10		06:09		05:32
	16:55	17:45	18:35		20:27		21:16		21:56
8	08:48	08:13	07:17		07:07		06:07		05:32
	16:56	17:47	18:37		20:28		21:17		21:57
9	08:47	08:11	07:15		07:05		06:06		05:31
	16:57	17:49	18:38		20:30		21:19		21:58
10	08:47	08:09	07:12		07:03		06:04		05:31
	16:59	17:51	18:40		20:32		21:20		21:59
11	08:46	08:07	07:10		07:01		06:02		05:30
	17:00	17:52	18:42		20:33		21:22		21:59
12	08:46	08:06	07:08		06:59		06:01		05:30
	17:01	17:54	18:43		20:35		21:23		22:00
13	08:45	08:04	07:06		06:57	07:19-07:21/2	05:59		05:30
	17:03	17:56	18:45		20:37		21:25		22:01
14	08:44	08:02	07:04		06:54	07:17-07:22/5	05:58		05:30
	17:04	17:58	18:47		20:38		21:27		22:01
15	08:44	08:00	07:01		06:52	07:15-07:22/7	05:56		05:29
	17:06	18:00	18:49		20:40		21:28		22:02
16	08:43	07:58	06:59		06:50	07:13-07:21/8	05:55		05:29
	17:07	18:01	18:50		20:42		21:29		22:02
17	08:42	07:56	06:57		06:48	07:12-07:20/8	05:53		05:29
	17:09	18:03	18:52		20:43		21:31		22:03
18	08:41	07:54	06:55		06:46	07:13-07:18/5	05:52		05:29
	17:11	18:05	18:54		20:45		21:32		22:03
19	08:40	07:52	06:52		06:44		05:50		05:29
	17:12	18:07	18:55		20:46		21:34		22:04
20	08:39	07:50	06:50		06:42		05:49		05:29
	17:14	18:09	18:57		20:48		21:35		22:04
21	08:38	07:48	06:48		06:40		05:48	06:14-06:15/1	05:29
	17:15	18:10	18:59		20:50		21:37		22:04
22	08:37	07:46	06:46	07:08-07:10/2	06:38		05:47	06:13-06:15/2	05:30
	17:17	18:12	19:00		20:51		21:38		22:04
23	08:36	07:44	06:43	07:06-07:10/4	06:36	06:59-07:01/2	05:45	06:12-06:14/2	05:30
	17:19	18:14	19:02		20:53		21:39		22:05
24	08:35	07:42	06:41	07:03-07:09/6	06:34	06:57-07:00/3	05:44	06:11-06:13/2	05:30
	17:20	18:16	19:04		20:55		21:41		22:05
25	08:33	07:40	06:39	07:01-07:08/7	06:32	06:55-07:00/5	05:43		05:30
	17:22	18:17	19:05		20:56		21:42		22:05
26	08:32	07:38	06:37	07:01-07:06/5	06:30	06:53-06:59/6	05:42		05:31
	17:24	18:19	19:07		20:58		21:43		22:05
27	08:31	07:36	06:34		06:28	06:53-06:57/4	05:41		05:31
	17:26	18:21	19:09		21:00		21:45		22:05
28	08:30	07:34	06:32		06:26		05:40		05:32
	17:27	18:23	19:10		21:01		21:46		22:05
29	08:28		07:30		06:24		05:39		05:32
	17:29		20:12		21:03		21:47		22:05
30	08:27		07:28		06:22		05:38		05:33
	17:31		20:14		21:04		21:48		22:04
31	08:25		07:25				05:37		
	17:33		20:15				21:49		
Potential sun hours	262	279	367		415		482		495
Sum of minutes with flicker	0	0	24		58		7		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10		06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12		07:00		07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02		07:49	07:42	08:30
	22:03		21:29		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03		07:51	07:43	08:31
	22:03		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05		07:52	07:45	08:33
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06	07:32-07:33/1	07:54	07:47	08:34
	22:02		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08	07:33-07:34/1	07:56	07:49	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11		07:59	07:52	08:37
	22:00		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:39/1	08:01	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14		08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16		08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45		06:29		07:17		08:06	07:59	08:41
	21:56		21:10		20:04		18:57	17:00	16:38
15	05:46		06:30		07:19		08:07	08:01	08:42
	21:55		21:09		20:02		18:54	16:58	16:38
16	05:47		06:32	07:00-07:05/5	07:20		08:09	08:02	08:43
	21:54		21:07		19:59		18:52	16:57	16:38
17	05:48		06:33	07:00-07:05/5	07:22	07:50-07:54/4	08:11	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50		06:35	07:02-07:07/5	07:24	07:48-07:55/7	08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36	07:03-07:06/3	07:25	07:50-07:56/6	08:14	08:07	08:45
	21:51		21:01		19:52		18:46	16:53	16:39
20	05:52	06:21-06:23/2	06:38	07:05-07:06/1	07:27	07:52-07:57/5	08:16	08:09	08:46
	21:50		20:59		19:50		18:44	16:52	16:39
21	05:53	06:23-06:25/2	06:40		07:28	07:53-07:56/3	08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55	06:24-06:26/2	06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56	06:25-06:26/1	06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46	07:16-07:21/5	07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47	07:14-07:23/9	07:36		07:26	08:19	08:49
	21:42		20:46		19:37		17:32	16:46	16:42
27	06:02		06:49	07:15-07:23/8	07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51	07:17-07:23/6	07:39		07:29	08:22	08:49
	21:40		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52	07:18-07:23/5	07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54	07:20-07:22/2	07:43		07:33	08:24	08:49
	21:37		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:23		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	9		54		28		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-08:53/3 17:35	07:32 18:25	07:23 20:17	06:20 06:44-06:47/3 21:06 06:53-07:23/30	05:36 21:50
2	08:49 16:49	08:22 08:48-08:52/4 17:36	07:30 18:26	07:21 20:19	06:18 06:42-06:46/4 21:08 06:53-07:22/29	05:35 21:51
3	08:49 16:50	08:21 08:46-08:51/5 17:38	07:28 18:28	07:19 20:20	06:16 06:41-06:46/5 21:09 06:53-07:22/29	05:35 21:52
4	08:49 16:51	08:19 08:45-08:50/5 17:40	07:26 18:30	07:16 20:22	06:14 06:39-06:44/5 21:11 06:53-07:22/29	05:34 21:53
5	08:49 16:52	08:18 08:43-08:49/6 17:42	07:23 18:32	07:14 20:23	06:13 06:53-07:21/28 21:13	05:33 21:54
6	08:49 16:54	08:16 08:41-08:47/6 17:43	07:21 18:33	07:12 20:25	06:11 06:53-07:20/27 21:14	05:33 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:39-08:47/8 17:45	07:19 18:35	07:10 20:27	06:09 06:54-07:20/26 21:16	05:32 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:38-08:48/10 17:47	07:17 18:37	07:08 20:28	06:07 06:32-06:33/1 21:17 06:55-07:19/24	05:32 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:36-08:48/12 17:49	07:15 18:38	07:05 07:28-07:29/1 20:30	06:06 06:31-06:34/3 21:19 06:56-07:18/22	05:31 21:58
10	08:47 09:16-09:21/5 16:59	08:09 08:34-08:48/14 17:51	07:13 18:40	07:03 20:32	06:04 06:29-06:34/5 21:20 06:57-07:17/20	05:31 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:32-08:47/15 17:53	07:10 18:42	07:01 20:33	06:02 06:28-06:36/8 21:22 06:58-07:16/18	05:30 21:59
12	08:46 09:15-09:23/8 17:02	08:06 08:33-08:46/13 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:36/10 21:23 06:59-07:14/15	05:30 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:34-08:45/11 17:56	07:06 07:28-07:29/1 18:45	06:57 20:37	05:59 06:25-06:37/12 21:25 07:02-07:12/10	05:30 22:01
14	08:44 09:13-09:24/11 17:04	08:02 08:35-08:43/8 17:58	07:04 07:26-07:30/4 18:47	06:54 20:38	05:58 06:23-06:36/13 21:27	05:30 22:01
15	08:44 09:12-09:24/12 17:06	08:00 18:00	07:01 07:24-07:31/7 18:49	06:52 20:40	05:56 06:22-06:37/15 21:28	05:30 22:02
16	08:43 09:11-09:25/14 17:08	07:58 18:02	06:59 07:22-07:32/10 18:50	06:50 20:42	05:55 06:21-06:37/16 21:29	05:29 22:02
17	08:42 09:10-09:25/15 17:09	07:56 18:03	06:57 07:19-07:31/12 18:52	06:48 20:43	05:53 06:19-06:36/17 21:31	05:29 22:03
18	08:41 09:09-09:25/16 17:11	07:54 18:05	06:55 07:17-07:31/14 18:54	06:46 20:45	05:52 06:19-06:36/17 21:32	05:29 22:03
19	08:40 09:10-09:25/15 17:12	07:52 18:07	06:52 07:15-07:31/16 18:55	06:44 20:47	05:51 06:19-06:36/17 21:34	05:29 22:04
20	08:39 09:11-09:25/14 17:14	07:50 18:09	06:50 07:16-07:30/14 18:57	06:42 07:08-07:13/5 20:48	05:49 06:20-06:36/16 21:35	05:29 22:04
21	08:38 09:11-09:24/13 17:16	07:49 18:10	06:48 07:16-07:27/11 18:59	06:40 07:04-07:17/13 20:50	05:48 06:19-06:35/16 21:37	05:30 22:04
22	08:37 09:12-09:24/12 17:17	07:46 18:12	06:46 07:18-07:25/7 19:00	06:38 07:01-07:19/18 20:51	05:47 06:20-06:35/15 21:38	05:30 22:04
23	08:36 09:14-09:23/9 17:19	07:44 18:14	06:43 07:06-07:08/2 19:02	06:36 06:59-07:20/21 20:53	05:45 06:21-06:34/13 21:39	05:30 22:05
24	08:35 09:15-09:21/6 17:21	07:42 18:16	06:41 07:04-07:07/3 19:04	06:34 06:58-07:21/23 20:55	05:44 06:22-06:33/11 21:41	05:30 22:05
25	08:33 17:22	07:40 18:18	06:39 07:01-07:05/4 19:05	06:32 06:56-07:22/26 20:56	05:43 06:23-06:32/9 21:42	05:31 22:05
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 06:55-07:22/27 20:58	05:42 06:25-06:30/5 21:43	05:31 22:05
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 06:54-07:22/28 21:00	05:41 21:45	05:31 22:05
28	08:30 17:27	07:34 18:23	06:32 19:10	06:26 06:54-07:22/28 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 20:12	06:24 06:54-07:23/29 21:03	05:39 21:47	05:32 22:04
30	08:27 17:31		07:28 07:50-07:51/1 20:14	06:22 06:46-06:47/1 21:04 06:54-07:23/29	05:38 21:48	05:33 22:04
31	08:25 08:51-08:52/1 17:33		07:25 07:48-07:49/1 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	176	120	107	249	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34		06:09	06:37-06:46/9	06:57		07:44		07:36	08:04-08:17/13	08:26	08:57-09:04/7
	22:04		21:33	07:09-07:25/16	20:33		19:25		17:21		16:42	
2	05:34		06:10	06:39-06:46/7	06:59		07:46		07:38	08:06-08:17/11	08:27	08:59-09:05/6
	22:04		21:32	07:07-07:26/19	20:31		19:23		17:19		16:41	
3	05:35		06:12	06:40-06:44/4	07:00	07:26-07:27/1	07:48		07:40	08:07-08:16/9	08:29	09:00-09:04/4
	22:03		21:30	07:07-07:28/21	20:29		19:21		17:17		16:41	
4	05:36		06:13	06:41-06:43/2	07:02		07:49		07:42	08:09-08:16/7	08:30	09:02-09:05/3
	22:03		21:29	07:05-07:28/23	20:26		19:19		17:16		16:40	
5	05:37		06:15	07:05-07:30/25	07:03		07:51		07:43	08:11-08:17/6	08:31	09:03-09:04/1
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:37		06:16	07:04-07:30/26	07:05		07:52		07:45	08:13-08:19/6	08:33	
	22:02		21:25		20:22		19:14		17:12		16:39	
7	05:38		06:18	07:04-07:31/27	07:06		07:54		07:47	08:15-08:20/5	08:34	
	22:01		21:23		20:20		19:12		17:10		16:39	
8	05:39		06:19	07:03-07:31/28	07:08		07:56		07:49	08:17-08:22/5	08:35	
	22:01		21:22		20:18		19:10		17:09		16:39	
9	05:40		06:21	06:49-06:54/5	07:10		07:57		07:50	08:19-08:23/4	08:36	
	22:00		21:20	07:02-07:31/29	20:15		19:07		17:07		16:38	
10	05:41		06:23	06:50-06:55/5	07:11		07:59		07:52	08:21-08:24/3	08:37	
	22:00		21:18	07:02-07:31/29	20:13		19:05		17:06		16:38	
11	05:42		06:24	06:51-06:55/4	07:13		08:01		07:54	08:23-08:24/1	08:38	
	21:59		21:16	07:01-07:31/30	20:11		19:03		17:04		16:38	
12	05:43		06:26	06:53-06:55/2	07:14		08:02		07:55		08:39	
	21:58		21:14	07:02-07:31/29	20:08		19:01		17:03		16:38	
13	05:44		06:27	06:54-06:55/1	07:16	07:41-07:42/1	08:04		07:57		08:40	
	21:57		21:12	07:01-07:31/30	20:06		18:59		17:01		16:38	
14	05:45		06:29	07:02-07:31/29	07:17		08:06		07:59		08:41	
	21:56		21:10		20:04		18:57		17:00		16:38	
15	05:46		06:30	07:01-07:30/29	07:19		08:07		08:01		08:42	
	21:55		21:09		20:02		18:54		16:58		16:38	
16	05:47		06:32	07:02-07:30/28	07:20		08:09		08:02		08:43	
	21:54		21:07		19:59		18:52		16:57		16:38	
17	05:49		06:33	07:02-07:29/27	07:22		08:11		08:04		08:44	
	21:53		21:05		19:57		18:50		16:56		16:38	
18	05:50	06:34-06:41/7	06:35	07:03-07:28/25	07:24	07:49-07:53/4	08:12		08:06	08:49-08:55/6	08:44	
	21:52		21:03		19:55		18:48		16:54		16:39	
19	05:51	06:32-06:42/10	06:37	07:04-07:26/22	07:25	07:50-07:54/4	08:14		08:07	08:48-08:57/9	08:45	
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52	06:32-06:44/12	06:38	07:05-07:26/21	07:27	07:52-07:55/3	08:16		08:09	08:47-08:59/12	08:46	
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54	06:31-06:45/14	06:40	07:06-07:23/17	07:28	08:05-08:10/5	08:17		08:11	08:47-09:00/13	08:46	
	21:49		20:57		19:48	07:53-07:54/1	18:42		16:51		16:40	
22	05:55	06:30-06:45/15	06:41	07:09-07:21/12	07:30	08:02-08:12/10	08:19		08:12	08:47-09:01/14	08:47	
	21:48		20:54		19:46		18:40		16:50		16:40	
23	05:56	06:30-06:46/16	06:43		07:32	08:00-08:13/13	08:21		08:14	08:46-09:01/15	08:47	
	21:46		20:52		19:43		18:38		16:49		16:41	
24	05:58	06:29-06:46/17	06:44		07:33	07:59-08:14/15	08:23		08:15	08:46-09:02/16	08:48	
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59	06:29-06:47/18	06:46		07:35	07:59-08:14/15	07:24		08:17	08:48-09:03/15	08:48	
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00	06:29-06:47/18	06:48		07:36	08:01-08:14/13	07:26		08:19	08:49-09:03/14	08:49	
	21:42		20:46		19:37		17:32		16:46		16:43	
27	06:02	06:30-06:47/17	06:49		07:38	08:03-08:14/11	07:28	08:07-08:10/3	08:20	08:51-09:04/13	08:49	
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:32-06:48/16	06:51		07:39	08:04-08:12/8	07:29	08:04-08:13/9	08:22	08:53-09:04/11	08:49	
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:33-06:47/14	06:52		07:41	08:06-08:12/6	07:31	08:03-08:15/12	08:23	08:54-09:04/10	08:49	
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:34-06:47/13	06:54		07:43	08:07-08:09/2	07:33	08:02-08:16/14	08:24	08:56-09:04/8	08:49	
	21:37	07:14-07:20/6	20:37		19:28		17:24		16:43		16:46	
31	06:07	06:36-06:47/11	06:55				07:35	08:02-08:17/15			08:49	
	21:35	07:11-07:23/12	20:35				17:23				16:47	
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker		216		581		112		53		226		21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:43/23	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06 19:41-20:01/20	21:50
2	08:49 09:20-09:43/23	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08 19:42-19:59/17	21:51
3	08:49 09:27-09:44/17	08:21	07:28	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:26/6	17:38	18:28	20:20	21:09 19:44-19:56/12	21:52
4	08:49 09:27-09:43/16	08:19	07:26	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:26/7	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:26/7	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:26/8	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:26/8	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:40-07:42/2	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:26/9	17:47	18:37	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-07:43/5	07:05 19:51-19:59/8	06:06 06:35-07:06/31	05:31
	16:57 09:19-09:26/7	17:49	18:38	20:30 08:19-09:09/50	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-07:41/6	07:03 19:47-20:03/16	06:04 06:36-07:05/29	05:31
	16:59 09:20-09:25/5	17:51	18:40	20:32 08:20-09:08/48	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-07:41/8	07:01 19:43-20:04/21	06:03 06:38-07:05/27	05:31
	17:00 09:22-09:23/1	17:53	18:42	20:33 08:19-09:06/47	21:22	21:59
12	08:46	08:06	07:08 07:31-07:39/8	06:59 19:41-20:06/25	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44	20:35 08:20-09:05/45	21:23	22:00
13	08:45	08:04	07:06	06:57 19:40-20:07/27	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37 08:21-09:03/42	21:25	22:01
14	08:44	08:02 08:26-08:30/4	07:04	06:54 19:39-20:08/29	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38 08:22-09:02/40	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:50-07:57/7	06:52 19:38-20:09/31	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40 08:23-09:00/37	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:43-08:03/20	06:50 19:37-20:09/32	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42 08:25-08:58/33	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 19:36-20:09/33	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43 08:26-08:55/29	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 19:36-20:10/34	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45 08:28-08:53/25	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 19:35-20:10/35	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47 08:31-08:49/18	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 19:35-20:10/35	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48 08:37-08:43/6	21:35	22:04
21	08:38	07:49 08:14-08:35/21	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50 19:35-20:09/34	21:37	22:04
22	08:37	07:47 08:14-08:35/21	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51 19:35-20:09/34	21:38	22:04
23	08:36	07:44 08:14-08:34/20	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53 19:35-20:09/34	21:39	22:05
24	08:35	07:42 08:15-08:33/18	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55 19:35-20:08/33	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56 19:35-20:07/32	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58 19:35-20:07/32	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00 19:36-20:06/30	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01 19:36-20:04/28	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03 19:37-20:03/26	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05 19:39-20:03/24	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	217	211	767	1581	541	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December	
1	05:34		06:09	06:49-07:15/26	06:57	19:42-20:03/21	07:44	08:11-08:17/6	07:36	08:26	09:17-09:22/5
	22:04		21:33		20:33	08:19-09:06/47	19:25		17:21	16:42	
2	05:34		06:10	06:48-07:16/28	06:59	19:45-20:01/16	07:46	08:11-08:19/8	07:38	08:27	09:17-09:25/8
	22:04		21:32		20:31	08:18-09:06/48	19:23		17:19	16:41	09:03-09:08/5
3	05:35		06:12	06:46-07:16/30	07:00	19:49-19:57/8	07:48	08:12-08:19/7	07:40	08:29	09:16-09:26/10
	22:03		21:30		20:29	08:17-09:07/50	19:21		17:17	16:41	09:02-09:09/7
4	05:36		06:13	06:45-07:15/30	07:02	08:16-09:07/51	07:49	08:14-08:20/6	07:42	08:30	09:16-09:28/12
	22:03		21:29		20:26		19:19		17:16	16:40	09:02-09:11/9
5	05:37		06:15	06:45-07:16/31	07:03	08:15-09:08/53	07:51	08:16-08:20/4	07:43	08:31	09:15-09:28/13
	22:03		21:27		20:24		19:16		17:14	16:40	09:03-09:12/9
6	05:37		06:16	06:44-07:15/31	07:05	08:14-09:08/54	07:52	08:17-08:18/1	07:45	08:33	09:15-09:29/14
	22:02		21:25		20:22		19:14		17:12	16:39	09:04-09:12/8
7	05:38		06:18	06:46-07:16/30	07:06	08:14-09:08/54	07:54		07:47	08:34	09:16-09:31/15
	22:01		21:23		20:20		19:12		17:11	16:39	09:06-09:13/7
8	05:39		06:19	06:47-07:15/28	07:08	08:13-09:08/55	07:56		07:49	08:35	09:15-09:31/16
	22:01		21:22		20:18		19:10		17:09	16:39	09:07-09:14/7
9	05:40		06:21	06:49-07:15/26	07:10	08:13-09:08/55	07:57		07:50	08:36	09:15-09:32/17
	22:00		21:20	19:57-20:01/4	20:15		19:07		17:07	16:38	09:08-09:14/6
10	05:41		06:23	06:50-07:13/23	07:11	07:36-07:37/1	07:59		07:52	08:37	09:09-09:32/23
	22:00		21:18	19:53-20:06/13	20:13	08:12-09:08/56	19:05		17:06	16:38	
11	05:42		06:24	06:51-07:12/21	07:13	07:38-07:42/4	08:01		07:54	08:38	09:10-09:33/23
	21:59		21:16	19:50-20:08/18	20:11	08:12-09:08/56	19:03		17:04	16:38	
12	05:43		06:26	06:53-07:12/19	07:14	07:39-07:43/4	08:02		07:55	08:39	09:11-09:33/22
	21:58		21:14	19:49-20:10/21	20:09	08:11-09:07/56	19:01		17:03	16:38	
13	05:44		06:27	06:54-07:10/16	07:16	07:41-07:44/3	08:04		07:57	08:40	09:12-09:34/22
	21:57		21:12	19:46-20:10/24	20:06	08:12-09:07/55	18:59		17:01	16:38	
14	05:45		06:29	06:56-07:08/12	07:17	07:42-07:43/1	08:06	08:55-08:57/2	07:59	08:41	09:13-09:34/21
	21:56		21:10	19:46-20:12/26	20:04	08:11-09:06/55	18:57		17:00	16:38	
15	05:46		06:30	06:57-07:08/11	07:19	08:11-09:06/55	08:07	08:51-09:02/11	08:01	08:42	09:14-09:35/21
	21:55		21:09	19:44-20:12/28	20:02		18:55		16:58	16:38	
16	05:48		06:32	06:59-07:10/11	07:21	08:11-09:04/53	08:09	08:48-09:03/15	08:02	08:43	09:15-09:36/21
	21:54		21:07	19:43-20:13/30	19:59		18:52		16:57	16:38	
17	05:49		06:33	07:00-07:10/10	07:22	08:12-09:04/52	08:11	08:47-09:04/17	08:04	08:44	09:16-09:36/20
	21:53		21:05	19:42-20:13/31	19:57		18:50		16:56	16:38	
18	05:50		06:35	07:02-07:11/9	07:24	08:11-09:02/51	08:12	08:46-09:05/19	08:06	08:44	09:16-09:36/20
	21:52		21:03	19:42-20:14/32	19:55		18:48		16:55	16:39	
19	05:51		06:37	07:03-07:10/7	07:25	08:12-09:02/50	08:14	08:45-09:06/21	08:07	08:45	09:17-09:37/20
	21:51		21:01	19:40-20:14/34	19:53		18:46		16:53	16:39	
20	05:52		06:38	07:05-07:11/6	07:27	08:13-09:01/48	08:16	08:45-09:06/21	08:09	08:46	09:18-09:38/20
	21:50		20:59	19:40-20:14/34	19:50		18:44		16:52	16:39	
21	05:54		06:40	07:06-07:10/4	07:28	08:14-08:59/45	08:17	08:44-09:05/21	08:11	08:46	09:18-09:38/20
	21:49		20:57	19:39-20:14/35	19:48		18:42		16:51	16:40	
22	05:55	06:59-07:05/6	06:41	07:08-07:09/1	07:30	08:15-08:58/43	08:19	08:45-09:05/20	08:12	08:47	09:19-09:39/20
	21:48		20:54	19:39-20:14/35	19:46		18:40		16:50	16:40	
23	05:56	06:56-07:07/11	06:43	19:39-20:13/34	07:32	08:16-08:56/40	08:21	08:47-09:05/18	08:14	08:47	09:19-09:39/20
	21:46		20:52	08:39-08:48/9	19:43	07:56-08:01/5	18:38		16:49	16:41	
24	05:58	06:54-07:08/14	06:44	19:39-20:13/34	07:33	08:17-08:54/37	08:23	08:49-09:05/16	08:15	08:48	09:19-09:39/20
	21:45		20:50	08:35-08:54/19	19:41	07:58-08:02/4	18:36		16:48	16:41	
25	05:59	06:54-07:10/16	06:46	19:38-20:12/34	07:35	08:18-08:51/33	07:24	07:51-08:04/13	08:17	08:48	09:20-09:40/20
	21:44		20:48	08:31-08:56/25	19:39	07:59-08:02/3	17:34		16:47	16:42	
26	06:00	06:53-07:11/18	06:48	19:39-20:12/33	07:36	08:21-08:49/28	07:26	07:52-08:02/10	08:19	08:49	09:20-09:40/20
	21:42		20:46	08:29-08:59/30	19:37	08:01-08:02/1	17:32		16:46	16:43	
27	06:02	06:52-07:12/20	06:49	19:39-20:11/32	07:38	08:24-08:46/22	07:28	07:54-08:01/7	08:20	08:49	09:20-09:41/21
	21:41		20:44	08:26-09:00/34	19:34		17:30		16:45	16:43	
28	06:03	06:51-07:14/23	06:51	19:39-20:09/30	07:40	08:27-08:41/14	07:29	07:56-07:59/3	08:22	08:49	09:20-09:41/21
	21:40		20:42	08:25-09:02/37	19:32		17:28		16:44	16:44	
29	06:05	06:50-07:14/24	06:52	19:40-20:09/29	07:41		07:31		08:23	08:49	09:20-09:41/21
	21:38		20:40	08:23-09:03/40	19:30		17:26		16:43	16:45	
30	06:06	06:50-07:14/24	06:54	19:40-20:07/27	07:43		07:33		08:24	08:49	09:20-09:42/22
	21:37		20:37	08:22-09:04/42	19:28		17:25		16:43	16:46	
31	06:07	06:50-07:15/25	06:55	19:41-20:05/24			07:35			08:49	09:20-09:42/22
	21:35		20:35	08:20-09:05/45			17:23			16:47	
Potential sun hours	498		451		380		333		269	248	
Sum of minutes with flicker	181		1333		1387		246		0	628	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:32-09:56/24 16:48	08:24 17:35	07:32 08:12-08:18/6 18:25	07:23 20:17	06:20 06:44-06:45/1 21:06 06:47-06:53/6	05:36 06:27-06:48/21 21:50
2	08:49 09:33-09:57/24 16:49	08:22 17:36	07:30 18:26	07:21 20:19	06:18 06:42-06:44/2 21:08	05:35 06:28-06:49/21 21:52
3	08:49 09:33-09:58/25 16:50	08:21 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 06:28-06:48/20 21:53
4	08:49 09:33-09:57/24 16:51	08:19 08:57-09:04/7 17:40	07:26 18:30	07:16 20:22	06:14 21:11	05:34 06:29-06:47/18 21:54
5	08:49 09:34-09:58/24 16:52	08:18 08:53-09:08/15 17:42	07:24 18:32	07:14 20:24	06:13 21:13	05:33 06:30-06:47/17 21:55
6	08:49 09:34-09:58/24 16:54	08:16 08:51-09:10/19 17:44	07:21 18:33	07:12 20:25	06:11 06:36-06:38/2 21:14	05:33 06:30-06:46/16 21:55
7	08:48 09:35-09:59/24 16:55	08:14 08:49-09:11/22 17:45	07:19 18:35	07:10 20:27	06:09 06:34-06:37/3 21:16	05:32 06:31-06:47/16 21:56
8	08:48 09:35-09:58/23 16:56	08:13 08:48-09:13/25 17:47	07:17 18:37	07:08 20:28	06:07 06:32-06:36/4 21:17	05:32 06:31-06:46/15 21:57
9	08:47 09:37-09:59/22 16:57	08:11 08:47-09:14/27 17:49	07:15 18:38	07:05 20:30	06:06 06:31-06:43/12 21:19	05:31 06:33-06:45/12 21:58
10	08:47 09:37-09:59/22 16:59	08:09 08:46-09:15/29 17:51	07:13 07:44-07:47/3 18:40	07:03 20:32	06:04 06:29-06:44/15 21:20	05:31 06:34-06:45/11 21:59
11	08:46 09:37-09:59/22 17:00	08:08 08:45-09:16/31 17:53	07:10 07:39-07:52/13 18:42	07:01 07:24-07:25/1 20:33	06:02 06:28-06:46/18 21:22	05:30 06:35-06:45/10 22:00
12	08:46 09:39-09:59/20 17:02	08:06 08:45-09:16/31 17:54	07:08 07:36-07:55/19 18:44	06:59 07:21-07:24/3 20:35	06:01 06:26-06:47/21 21:24	05:30 06:35-06:44/9 22:00
13	08:45 09:39-09:59/20 17:03	08:04 08:44-09:17/33 17:56	07:06 07:34-07:55/21 18:45	06:57 07:19-07:24/5 20:37	05:59 06:25-06:48/23 21:25	05:30 06:36-06:43/7 22:01
14	08:44 09:40-09:59/19 17:04	08:02 08:44-09:17/33 17:58 08:26-08:28/2	07:04 07:32-07:56/24 18:47	06:54 07:17-07:23/6 20:38	05:58 06:25-06:48/23 21:27	05:30 06:38-06:43/5 22:01
15	08:44 09:41-09:58/17 17:06	08:00 08:43-09:17/34 18:00 08:24-08:30/6	07:01 07:31-07:57/26 18:49	06:52 07:15-07:21/6 20:40	05:56 06:25-06:49/24 21:28	05:30 06:39-06:42/3 22:02
16	08:43 09:42-09:58/16 17:08	07:58 08:43-09:17/34 18:02 08:22-08:31/9	06:59 07:30-07:58/28 18:50	06:50 20:42	05:55 06:25-06:50/25 21:30	05:29 22:02
17	08:42 09:44-09:57/13 17:09	07:56 08:43-09:17/34 18:03 08:20-08:31/11	06:57 07:29-07:58/29 18:52	06:48 20:43	05:53 06:24-06:49/25 21:31	05:29 22:03
18	08:41 09:46-09:55/9 17:11	07:54 08:43-09:17/34 18:05 08:18-08:32/14	06:55 07:29-07:58/29 18:54	06:46 20:45	05:52 06:24-06:50/26 21:32	05:29 22:03
19	08:40 09:50-09:53/3 17:12	07:53 08:44-09:16/32 18:07 08:16-08:32/16	06:52 07:28-07:58/30 18:55	06:44 20:47	05:51 06:24-06:50/26 21:34	05:29 22:04
20	08:39 17:14	07:51 08:44-09:16/32 18:09 08:14-08:31/17	06:50 07:28-07:58/30 18:57	06:42 20:48	05:49 06:24-06:51/27 21:35	05:29 22:04
21	08:38 17:16	07:49 08:45-09:15/30 18:11 08:12-08:31/19	06:48 07:28-07:56/28 18:59	06:40 07:03-07:05/2 20:50	05:48 06:23-06:50/27 21:37	05:30 22:04
22	08:37 17:17	07:47 08:45-09:14/29 18:12 08:10-08:30/20	06:46 07:28-07:56/28 19:00	06:38 07:01-07:06/5 20:51	05:47 06:23-06:50/27 21:38	05:30 22:04
23	08:36 17:19	07:45 08:46-09:13/27 18:14 08:08-08:29/21	06:43 07:28-07:55/27 19:02	06:36 06:59-07:06/7 20:53	05:45 06:24-06:50/26 21:39	05:30 22:05
24	08:35 17:21	07:42 08:48-09:11/23 18:16 08:07-08:26/19	06:41 07:28-07:53/25 19:04	06:34 06:57-07:06/9 20:55	05:44 06:24-06:50/26 21:41	05:30 22:05
25	08:33 17:22	07:40 08:49-09:10/21 18:18 08:08-08:25/17	06:39 07:29-07:52/23 19:05	06:32 06:55-07:06/11 20:56	05:43 06:24-06:50/26 21:42	05:31 22:05
26	08:32 17:24	07:38 08:51-09:07/16 18:19 08:08-08:24/16	06:37 07:31-07:50/19 19:07	06:30 06:53-07:05/12 20:58	05:42 06:24-06:50/26 21:43	05:31 22:05
27	08:31 17:26	07:36 08:55-09:04/9 18:21 08:09-08:23/14	06:34 07:32-07:48/16 19:09	06:28 06:51-07:04/13 21:00	05:41 06:25-06:50/25 21:45	05:31 22:05
28	08:30 17:27	07:34 08:10-08:20/10 18:23	06:32 07:34-07:44/10 19:10	06:26 06:50-07:03/13 21:01	05:40 06:25-06:49/24 21:46	05:32 06:41-06:45/4 22:05
29	08:28 17:29	 	07:30 20:12	06:24 06:48-07:02/14 21:03	05:39 06:26-06:50/24 21:47	05:32 06:40-06:46/6 22:05
30	08:27 17:31	 	07:28 20:14	06:22 06:46-06:55/9 21:05	05:38 06:26-06:50/24 21:48	05:33 06:40-06:48/8 22:04
31	08:25 17:33	 	07:25 20:15	 	05:37 06:27-06:49/22 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	375	838	434	116	560	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:24/1 20:33	07:44 08:14-08:34/20 19:25	07:36 08:16-08:44/28 17:21	08:26 09:19-09:41/22 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:17-08:32/15 19:23	07:38 08:17-08:44/27 17:19	08:27 09:20-09:42/22 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:19-08:28/9 19:21	07:40 08:17-08:42/25 17:17	08:29 09:20-09:42/22 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 19:19	07:42 08:19-08:41/22 17:16	08:30 09:20-09:43/23 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 19:16	07:43 08:21-08:39/18 17:14	08:31 09:20-09:44/24 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 19:14	07:45 08:23-08:37/14 17:12	08:33 09:20-09:44/24 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 19:12	07:47 08:27-08:33/6 17:11	08:34 09:21-09:45/24 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 09:21-09:45/24 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 17:07	08:36 09:21-09:46/25 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 09:22-09:46/24 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 09:22-09:46/24 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 19:01	07:56 17:03	08:39 09:22-09:47/25 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:44-08:52/8 18:59	07:57 17:01	08:40 09:23-09:47/24 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:42-08:54/12 18:57	07:59 17:00	08:41 09:23-09:48/25 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 09:25-09:38/13 18:54 08:41-08:56/15	08:01 16:58	08:42 09:24-09:48/24 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 09:22-09:39/17 18:52 08:39-08:56/17	08:02 16:57	08:43 09:25-09:49/24 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:39-08:56/17	08:04 16:56	08:44 09:25-09:50/25 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:39-08:59/20	08:06 16:55	08:45 09:25-09:49/24 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-09:00/20	08:07 16:53	08:45 09:26-09:50/24 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-09:02/20	08:09 16:52	08:46 09:27-09:51/24 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:06-07:11/5 20:57	07:28 08:14-08:41/27 19:48	08:17 09:15-09:46/31 18:42 08:43-09:01/18	08:11 16:51	08:46 09:27-09:51/24 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:08-07:10/2 20:55	07:30 08:13-08:42/29 19:46	08:19 09:14-09:46/32 18:40 08:45-09:02/17	08:12 16:50	08:47 09:28-09:52/24 16:40
23	05:56 06:34-07:00/26 21:46	06:43 20:52	07:32 08:12-08:41/29 19:43	08:21 09:14-09:47/33 18:38 08:47-09:02/15	08:14 09:26-09:28/2 16:49	08:48 09:28-09:52/24 16:41
24	05:58 06:34-07:00/26 21:45	06:44 20:50	07:33 08:12-08:41/29 19:41	08:23 09:14-09:47/33 18:36 08:49-09:02/13	08:15 09:23-09:32/9 16:48	08:48 09:28-09:52/24 16:41
25	05:59 06:34-07:01/27 21:44	06:46 20:48	07:35 08:11-08:40/29 19:39	07:24 08:14-08:47/33 17:34 07:51-08:02/11	08:17 09:22-09:35/13 16:47	08:48 09:29-09:53/24 16:42
26	06:00 06:34-07:00/26 21:42	06:48 20:46	07:36 08:11-08:40/29 19:37	07:26 08:14-08:47/33 17:32 07:53-08:01/8	08:19 09:21-09:36/15 16:46	08:49 09:29-09:53/24 16:43
27	06:02 06:34-07:00/26 21:41	06:49 20:44	07:38 08:12-08:40/28 19:34	07:28 08:13-08:46/33 17:30 07:54-07:59/5	08:20 09:20-09:37/17 16:45	08:49 09:29-09:54/25 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:23/6 20:42	07:40 08:12-08:38/26 19:32	07:29 08:13-08:46/33 17:28 07:56-07:57/1	08:22 09:20-09:39/19 16:44	08:49 09:30-09:54/24 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:24/6 20:40	07:41 08:13-08:38/25 19:30	07:31 08:14-08:46/32 17:26	08:23 09:20-09:39/19 16:43	08:49 09:30-09:55/25 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:25/5 20:38	07:43 08:13-08:36/23 19:28	07:33 08:14-08:46/32 17:24	08:25 09:20-09:41/21 16:43	08:49 09:31-09:55/24 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:24/3 20:35		07:35 08:15-08:45/30 17:23		08:49 09:31-09:56/25 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	195	390	751	255	744

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:08-10:30/22	08:24 09:00-09:29/29	07:32	07:23 07:48-07:54/6	06:20	05:36 21:09-21:19/10
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 10:09-10:30/21	08:22 09:00-09:29/29	07:30	07:21 07:51-08:00/9	06:18	05:36 21:08-21:19/11
	16:49	17:36	18:26	20:19 07:43-07:46/3	21:08	21:52
3	08:49 10:10-10:30/20	08:21 08:59-09:29/30	07:28	07:19 07:41-08:03/22	06:16	05:35 21:08-21:21/13
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:10-10:29/19	08:19 09:00-09:30/30	07:26	07:16 07:39-08:06/27	06:15	05:34 21:07-21:21/14
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:12-10:30/18	08:18 09:00-09:30/30	07:24	07:14 07:37-08:07/30	06:13	05:33 21:07-21:23/16
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 10:12-10:29/17	08:16 09:00-09:30/30	07:21	07:12 07:34-08:07/33	06:11	05:33 21:07-21:23/16
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 10:14-10:28/14	08:14 09:00-09:30/30	07:19	07:10 07:32-08:08/36	06:09 06:34-06:35/1	05:32 06:01-06:02/1
	16:55	17:45	18:35	20:27	21:16	21:56 21:07-21:24/17
8	08:48 10:15-10:27/12	08:13 09:01-09:30/29	07:17	07:08 07:32-08:09/37	06:08 06:32-06:33/1	05:32 06:01-06:03/2
	16:56	17:47	18:37	20:28	21:17	21:57 21:06-21:24/18
9	08:47 10:18-10:26/8	08:11 09:01-09:30/29	07:15	07:05 07:33-08:09/36	06:06	05:31 06:00-06:03/3
	16:57	17:49	18:38	20:30 07:28-07:30/2	21:19	21:58 21:07-21:26/19
10	08:47	08:09 09:02-09:29/27	07:13	07:03 07:34-08:09/35	06:04	05:31 06:00-06:04/4
	16:59	17:51	18:40	20:32 07:26-07:31/5	21:20	21:59 21:07-21:27/20
11	08:46	08:08 09:02-09:28/26	07:10	07:01 07:37-08:09/32	06:03	05:30 06:00-06:04/4
	17:00	17:53	18:42	20:33 07:24-07:31/7	21:22	22:00 21:06-21:27/21
12	08:46	08:06 09:03-09:27/24	07:08	06:59 07:35-08:08/33	06:01	05:30 05:59-06:04/5
	17:02	17:54	18:44	20:35 07:21-07:30/9	21:24	22:00 21:06-21:27/21
13	08:45	08:04 09:04-09:25/21	07:06	06:57 07:35-08:08/33	05:59	05:30 05:59-06:05/6
	17:03	17:56	18:45	20:37 07:19-07:29/10	21:25	22:01 21:07-21:28/21
14	08:44	08:02 09:06-09:24/18	07:04	06:55 07:35-08:08/33	05:58	05:30 05:59-06:05/6
	17:05	17:58	18:47	20:38 07:17-07:28/11	21:27	22:01 21:07-21:29/22
15	08:44	08:00 09:08-09:21/13	07:01	06:52 07:35-08:07/32	05:56	05:30 05:59-06:05/6
	17:06	18:00	18:49	20:40 07:18-07:26/8	21:28	22:02 21:07-21:29/22
16	08:43	07:58 09:12-09:17/5	06:59	06:50 07:35-08:07/32	05:55	05:29 05:59-06:06/7
	17:08	18:02	18:50	20:42	21:30	22:02 21:07-21:30/23
17	08:42 09:10-09:12/2	07:56	06:57	06:48 07:36-08:06/30	05:53	05:29 05:59-06:06/7
	17:09	18:03	18:52	20:43	21:31	22:03 21:07-21:30/23
18	08:41 09:09-09:13/4	07:54	06:55	06:46 07:36-08:05/29	05:52	05:29 05:59-06:06/7
	17:11	18:05	18:54	20:45	21:32	22:03 21:07-21:30/23
19	08:40 09:08-09:14/6	07:53	06:52	06:44 07:07-07:09/2	05:51	05:29 05:59-06:06/7
	17:12	18:07	18:55	20:47 07:37-08:04/27	21:34	22:04 21:08-21:30/22
20	08:39 09:07-09:15/8	07:51	06:50	06:42 07:05-07:08/3	05:49	05:29 05:59-06:07/8
	17:14	18:09	18:57	20:48 07:38-08:02/24	21:35	22:04 21:08-21:30/22
21	08:38 09:05-09:15/10	07:49	06:48	06:40 07:03-07:06/3	05:48	05:30 05:59-06:07/8
	17:16	18:11	18:59	20:50 07:39-08:00/21	21:37	22:04 21:08-21:30/22
22	08:37 09:04-09:16/12	07:47	06:46	06:38 07:01-07:03/2	05:47	05:30 06:00-06:08/8
	17:17	18:12	19:00	20:51 07:40-07:58/18	21:38	22:04 21:08-21:30/22
23	08:36 09:03-09:17/14	07:45	06:43	06:36 06:59-07:03/4	05:45	05:30 06:00-06:07/7
	17:19	18:14	19:02	20:53 07:43-07:55/12	21:39	22:05 21:09-21:31/22
24	08:35 09:02-09:18/16	07:42	06:41	06:34 06:57-07:02/5	05:44	05:30 06:00-06:07/7
	17:21	18:16	19:04	20:55 07:48-07:49/1	21:41	22:05 21:08-21:31/23
25	08:33 09:00-09:21/21	07:40	06:39	06:32 06:55-07:02/7	05:43	05:31 06:01-06:08/7
	17:22	18:18	19:05	20:56	21:42	22:05 21:08-21:31/23
26	08:32 08:59-09:23/24	07:38	06:37	06:30 06:53-07:01/8	05:42	05:31 06:01-06:08/7
	17:24	18:19	19:07	20:58	21:43	22:05 21:09-21:32/23
27	08:31 08:57-09:24/27	07:36	06:34	06:28 06:51-07:00/9	05:41	05:31 06:02-06:09/7
	17:26	18:21	19:09	21:00	21:45	22:05 21:09-21:31/22
28	08:30 08:57-09:25/28	07:34	06:32 06:55-06:58/3	06:26 06:51-07:00/9	05:40	05:32 06:02-06:08/6
	17:27	18:23	19:10	21:01	21:46	22:05 21:10-21:32/22
29	08:28 08:57-09:26/29		07:30 07:52-07:57/5	06:24 06:53-06:58/5	05:39	05:32 06:03-06:09/6
	17:29		20:12	21:03	21:47	22:05 21:10-21:31/21
30	08:27 08:58-09:27/29		07:28 07:50-07:56/6	06:22	05:38 21:12-21:17/5	05:33 06:03-06:08/5
	17:31		20:14	21:05	21:48	22:04 21:10-21:32/22
31	08:25 08:58-09:28/30		07:25 07:48-07:56/8		05:37 21:10-21:18/8	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	411	400	22	740	15	737

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26
	22:04 21:10-21:31/21	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27
	22:04 21:11-21:31/20	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 10:01-10:09/8
	22:03 21:12-21:31/19	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 10:01-10:12/11
	22:03 21:12-21:31/19	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15 06:43-06:44/1	07:03 07:29-08:05/36	07:51	07:43 08:29-09:00/31	08:31 09:59-10:13/14
	22:03 21:12-21:30/18	21:27	20:24	19:16	17:14	16:40
6	05:37 21:13-21:30/17	06:16 06:44-06:45/1	07:05 07:30-08:03/33	07:52	07:45 08:30-09:00/30	08:33 09:59-10:15/16
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:14-21:29/15	06:18	07:06 07:32-08:02/30	07:54	07:47 08:30-09:00/30	08:34 09:59-10:17/18
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 21:14-21:29/15	06:19	07:08 07:33-08:00/27	07:56	07:49 08:30-09:00/30	08:35 09:59-10:17/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:15-21:28/13	06:21	07:10 07:35-07:58/23	07:57	07:50 08:31-09:00/29	08:36 09:58-10:18/20
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 21:16-21:28/12	06:23	07:11 07:43-07:54/11	07:59	07:52 08:31-09:00/29	08:37 09:58-10:19/21
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 21:17-21:27/10	06:24	07:13 07:40-07:46/6	08:01	07:54 08:30-09:00/30	08:38 09:58-10:20/22
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 21:18-21:27/9	06:26	07:14 07:39-07:47/8	08:02	07:56 08:29-08:58/29	08:39 09:58-10:20/22
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 21:20-21:26/6	06:27	07:16 07:41-07:48/7	08:04	07:57 08:29-08:58/29	08:40 09:58-10:21/23
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 21:23-21:25/2	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 08:29-08:57/28	08:41 09:59-10:22/23
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30 06:57-07:07/10	07:19 07:44-07:47/3	08:07	08:01 08:30-08:57/27	08:42 09:59-10:23/24
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:45-07:46/1	08:09	08:02 08:32-08:56/24	08:43 09:59-10:24/25
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:08/8	07:22	08:11	08:04 08:34-08:55/21	08:44 10:00-10:24/24
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:08/6	07:24	08:12	08:06 08:36-08:52/16	08:45 10:00-10:24/24
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:08/5	07:25	08:14	08:07 08:37-08:51/14	08:45 10:00-10:25/25
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:09/4	07:27	08:16	08:09 08:39-08:51/12	08:46 10:01-10:26/25
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28	08:17	08:11 08:41-08:51/10	08:46 10:01-10:26/25
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30	08:19	08:12 08:43-08:51/8	08:47 10:02-10:27/25
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14 08:44-08:50/6	08:47 10:02-10:27/25
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33	08:23	08:15 08:46-08:50/4	08:48 10:02-10:27/25
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35	07:24	08:17 08:48-08:50/2	08:48 10:04-10:28/24
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36	07:26 08:41-08:49/8	08:19	08:49 10:04-10:28/24
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38	07:28 08:37-08:51/14	08:20	08:49 10:04-10:29/25
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22	08:49 10:05-10:29/24
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23	08:49 10:05-10:29/24
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25	08:49 10:06-10:29/23
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 10:07-10:29/22
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	212	431	347	114	555	629

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:49	08:24		07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34		18:25		20:17		21:06		21:50	
2	08:49	08:22		07:30		07:21		06:18		05:35	06:04-06:14/10
	16:49	17:36		18:26		20:18		21:08		21:51	
3	08:49	08:21		07:28		07:19		06:16		05:35	06:03-06:14/11
	16:50	17:38		18:28		20:20		21:09		21:52	
4	08:49	08:19		07:26		07:16		06:14		05:34	06:02-06:14/12
	16:51	17:40		18:30		20:22		21:11		21:53	
5	08:49	08:18		07:23	07:46-07:47/1	07:14		06:13		05:33	06:02-06:14/12
	16:52	17:42		18:31		20:23		21:13		21:54	
6	08:49	08:16		07:21	07:44-07:47/3	07:12		06:11		05:33	06:01-06:14/13
	16:53	17:43		18:33		20:25		21:14		21:55	
7	08:48	08:14		07:19	07:42-07:47/5	07:10		06:09		05:32	06:01-06:14/13
	16:55	17:45		18:35		20:27		21:16		21:56	
8	08:48	08:13		07:17	07:40-07:47/7	07:07		06:07		05:32	06:00-06:14/14
	16:56	17:47		18:37		20:28		21:17		21:57	
9	08:47	08:11		07:15	07:37-07:46/9	07:05		06:06		05:31	06:00-06:14/14
	16:57	17:49		18:38		20:30		21:19		21:58	
10	08:47	08:09		07:12	07:35-07:45/10	07:03		06:04		05:31	06:00-06:14/14
	16:59	17:51		18:40		20:32		21:20		21:59	
11	08:46	08:07		07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52		18:42		20:33		21:22		21:59	
12	08:46	08:06		07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54		18:43		20:35		21:23		22:00	
13	08:45	08:04		07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:44	08:02	08:26-08:27/1	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58		18:47		20:38		21:26		22:01	
15	08:44	08:00	08:24-08:27/3	07:01		06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	08:22-08:27/5	06:59		06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01		18:50		20:42		21:29		22:02	
17	08:42	07:56	08:20-08:26/6	06:57		06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03		18:52		20:43		21:31		22:03	
18	08:41	07:54	08:18-08:25/7	06:55		06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05		18:54		20:45		21:32		22:03	
19	08:40	07:52	08:17-08:24/7	06:52	07:15-07:16/1	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07		18:55		20:46		21:34		22:04	
20	08:39	07:50		06:50	07:13-07:16/3	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09		18:57		20:48		21:35		22:04	
21	08:38	07:48		06:48	07:10-07:15/5	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10		18:59		20:50		21:37		22:04	
22	08:37	07:46		06:46	07:08-07:15/7	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12		19:00		20:51		21:38		22:04	
23	08:36	07:44		06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14		19:02		20:53		21:39		22:05	
24	08:35	07:42		06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16		19:04		20:55		21:41		22:05	
25	08:33	07:40		06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18		19:05		20:56		21:42		22:05	
26	08:32	07:38		06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19		19:07		20:58		21:43		22:05	
27	08:31	07:36		06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34		06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29			20:12		21:03		21:47		22:04	
30	08:27			07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31			20:14		21:04		21:48		22:04	
31	08:25			07:25				05:37	06:05-06:13/8		
	17:33			20:15				21:49			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	29		83		23		33		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34	06:04-06:19/15	06:09		06:57		07:44		07:36	08:26
	22:04		21:33		20:33		19:25		17:21	16:42
2	05:34	06:04-06:19/15	06:10		06:58		07:46	08:14-08:22/8	07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35	06:05-06:19/14	06:12		07:00		07:47	08:12-08:23/11	07:40	08:29
	22:03		21:30		20:29		19:21		17:17	16:41
4	05:36	06:06-06:20/14	06:13		07:02		07:49	08:14-08:24/10	07:42	08:30
	22:03		21:29		20:26		19:18		17:15	16:40
5	05:36	06:06-06:19/13	06:15		07:03		07:51	08:16-08:24/8	07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37	06:07-06:20/13	06:16		07:05		07:52	08:17-08:23/6	07:45	08:32
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38	06:08-06:20/12	06:18		07:06		07:54	08:19-08:23/4	07:47	08:34
	22:01		21:23		20:20		19:12		17:10	16:39
8	05:39	06:09-06:21/12	06:19		07:08		07:56	08:21-08:23/2	07:49	08:35
	22:01		21:22		20:17		19:10		17:09	16:39
9	05:40	06:10-06:21/11	06:21		07:09		07:57		07:50	08:36
	22:00		21:20		20:15		19:07		17:07	16:38
10	05:41	06:11-06:21/10	06:22		07:11		07:59		07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42	06:12-06:22/10	06:24		07:13		08:01		07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43	06:13-06:22/9	06:26		07:14		08:02		07:55	08:39
	21:58		21:14		20:08		19:01		17:03	16:38
13	05:44	06:14-06:22/8	06:27		07:16		08:04		07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45	06:15-06:22/7	06:29		07:17		08:06		07:59	08:41
	21:56		21:10		20:04		18:57		17:00	16:38
15	05:46	06:16-06:22/6	06:30		07:19		08:07		08:01	08:42
	21:55		21:08		20:02		18:54		16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09		08:02	08:43
	21:54		21:07		19:59		18:52		16:57	16:38
17	05:49	06:18-06:21/3	06:33		07:22		08:11		08:04	08:44
	21:53		21:05		19:57		18:50		16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:24		08:12		08:06	08:44
	21:52		21:03		19:55		18:48		16:54	16:38
19	05:51		06:36		07:25	07:51-07:58/7	08:14		08:07	08:45
	21:51		21:01		19:52		18:46		16:53	16:39
20	05:52		06:38		07:27	07:52-08:00/8	08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28	07:53-08:00/7	08:17		08:11	08:46
	21:49		20:56		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30	07:55-08:01/6	08:19		08:12	08:47
	21:48		20:54		19:46		18:40		16:50	16:40
23	05:56		06:43	07:09-07:15/6	07:31	07:56-08:00/4	08:21	08:47-08:55/8	08:14	08:47
	21:46		20:52		19:43		18:38		16:49	16:41
24	05:57		06:44	07:11-07:17/6	07:33	07:58-07:59/1	08:22	08:49-08:56/7	08:15	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59		06:46	07:12-07:17/5	07:35		07:24	07:51-07:57/6	08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00		06:47	07:14-07:18/4	07:36		07:26	07:53-07:57/4	08:18	08:49
	21:42		20:46		19:37		17:32		16:46	16:42
27	06:02		06:49	07:15-07:17/2	07:38		07:28	07:54-07:57/3	08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03		06:51		07:39		07:29		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:04		06:52		07:41		07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06		06:54		07:43		07:33		08:24	08:49
	21:37		20:37		19:27		17:24		16:43	16:46
31	06:07		06:55				07:35			08:49
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	178		23		33		77		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:16/1	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:16/4	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50 07:17-07:18/1	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	9	16	0	1	22	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:52-07:04/12	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06 06:44-06:50/6	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:54-07:01/7	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08 06:42-06:48/6	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:47/7	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:40-06:46/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:56/7	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:57/7	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 07:02-07:11/9	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16 06:51-06:57/6	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 07:00-07:13/13	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14 06:53-06:58/5	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-07:14/20	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-07:15/19	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30 06:57-07:15/18	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32 06:59-07:16/17	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33 07:00-07:16/16	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35 07:02-07:16/14	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44 07:07-07:08/1	05:50	05:29 05:59-06:09/10	05:51	06:36 07:03-07:15/12	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42 07:05-07:09/4	05:49	05:29 05:59-06:10/11	05:52	06:38 07:05-07:15/10	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40 07:03-07:09/6	05:48	05:29 05:59-06:10/11	05:54	06:40 07:06-07:14/8	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38 07:01-07:10/9	05:47	05:30 06:00-06:11/11	05:55	06:41 07:08-07:14/6	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36 06:59-07:10/11	05:45	05:30 06:00-06:11/11	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34 06:57-07:10/13	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:09/14	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:09/16	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-07:08/17	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-07:07/18	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-07:07/19	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:51-07:06/15	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05 06:46-06:50/4	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	147	44	230	50	190	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-08:50/2 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:46-08:49/3 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:45-08:50/5 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:43-08:49/6 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:41-08:48/7 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:39-08:47/8 17:45	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:38-08:46/8 17:47	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:36-08:45/9 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:34-08:43/9 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:32-08:41/9 17:53	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 18:50	06:50 07:13-07:14/1 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 18:52	06:48 07:11-07:13/2 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 18:54	06:46 07:09-07:11/2 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 18:55	06:44 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:05-09:28/23 17:17	07:47 08:27-08:33/6 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:06-09:28/22 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:06-09:27/21 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:07-09:27/20 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 09:09-09:27/18 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 09:09-09:25/16 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 09:11-09:25/14 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 09:13-09:22/9 17:29	 	07:30 07:52-08:09/17 20:12	06:24 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 17:31	 	07:28 07:50-08:09/19 20:14	06:22 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 17:33	 	07:25 07:48-08:08/20 20:15	 	05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	321	234	105	82	108	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:34/30	06:09	06:57	07:44	07:36 08:04-08:13/9	08:26 08:57-09:04/7
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34 06:04-06:34/30	06:10	06:59	07:46	07:38 08:06-08:15/9	08:27 08:59-09:05/6
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:34/29	06:12	07:00	07:48	07:40 08:08-08:16/8	08:29 09:00-09:04/4
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:34/28	06:13	07:02	07:49	07:42 08:09-08:17/8	08:30 09:02-09:05/3
	22:03	21:29	20:26	19:19	17:16	16:40
5	05:37 06:06-06:33/27	06:15	07:03 07:29-07:32/3	07:51	07:43 08:11-08:18/7	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:33/26	06:16	07:05 07:30-07:32/2	07:52	07:45 08:13-08:19/6	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:33/25	06:18	07:06 07:32-07:33/1	07:54	07:47 08:15-08:20/5	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:33/24	06:19	07:08 07:45-07:56/11	07:56	07:49 08:17-08:20/3	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:33/23	06:21	07:10 07:43-07:58/15	07:57	07:50 08:19-08:20/1	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:33/22	06:23	07:11 07:36-07:59/23	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:32/20	06:24	07:13 07:38-08:00/22	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:32/19	06:26	07:14 07:39-07:59/20	08:02	07:55	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:31/17	06:27	07:16 07:41-08:00/19	08:04	07:57 08:45-08:54/9	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:30/15	06:29	07:17 07:42-07:59/17	08:06	07:59 08:43-08:57/14	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:29/13	06:30	07:19 07:44-07:59/15	08:07	08:01 08:42-08:58/16	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:17-06:28/11	06:32	07:20 07:45-07:58/13	08:09	08:02 08:42-09:00/18	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:26/8	06:33	07:22 07:47-07:58/11	08:11	08:04 08:41-09:01/20	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:23/4	06:35	07:24 07:48-07:56/8	08:12	08:06 08:40-09:01/21	08:44
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37	07:25 07:50-07:55/5	08:14	08:07 08:40-09:02/22	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-07:53/1	08:16 08:57-09:05/8	08:09 08:40-09:03/23	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 08:54-09:07/13	08:11 08:41-09:03/22	08:46
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:52-09:09/17	08:12 08:43-09:04/21	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:51-09:10/19	08:14 08:44-09:03/19	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:32/3	06:44	07:33	08:23 08:51-09:11/20	08:15 08:46-09:04/18	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:34/6	06:46 07:12-07:14/2	07:35	07:24 07:51-08:11/20	08:17 08:48-09:05/17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:35/6	06:48 07:14-07:16/2	07:36	07:26 07:53-08:11/18	08:19 08:49-09:04/15	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:36/6	06:49 07:15-07:16/1	07:38	07:28 07:54-08:11/17	08:20 08:51-09:05/14	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:37/5	06:51	07:39	07:29 07:56-08:11/15	08:22 08:53-09:05/12	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:37/4	06:52	07:41	07:31 07:58-08:10/12	08:23 08:54-09:05/11	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:37/3	06:54	07:43	07:33 08:00-08:10/10	08:24 08:56-09:05/9	08:49
	21:37	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:38/2	06:55		07:35 08:02-08:11/9		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	406	5	186	178	357	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23 07:45-07:48/3	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21 07:43-07:46/3	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00 07:26-07:28/2	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:28/1	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:31/1	06:07	05:32	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:30/2	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11 07:36-07:39/3	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13 07:38-07:41/3	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14 07:39-07:41/2	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45 06:15-06:19/4	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:29	05:46 06:16-06:20/4	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59 07:22-07:23/1	06:50	05:55	05:29	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57 07:19-07:21/2	06:48	05:53	05:29	05:48 06:18-06:21/3	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:21/2	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:22/1	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44 06:11-06:12/1	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43 06:10-06:12/2	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42 06:09-06:12/3	05:31	06:00	06:47	07:36 08:01-08:03/2	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41 06:08-06:11/3	05:31	06:02	06:49	07:38 08:03-08:05/2	07:28	08:20	08:49
	17:26	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40 06:07-06:11/4	05:32	06:03	06:51	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:10/4	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38 06:07-06:09/2	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25 07:48-07:50/2		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	5	9	19	0	20	0	16	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
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	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
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	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
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9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
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	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17 07:42-07:43/1	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
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	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
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20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
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	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
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	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30 07:52-07:53/1	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27 07:50-07:51/1	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	2	3	0	0	0	3	2	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	711	1.314	1.567	877	636	560	8.541

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:13/9	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51 06:17-06:33/16	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52 06:19-06:33/14	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:15/12	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53 06:19-06:33/14	22:04 06:30-06:33/3	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:15/13	05:36 06:06-06:23/17	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54 06:19-06:32/13	22:03 06:29-06:35/6	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:16/14	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55 06:20-06:32/12	22:03 06:28-06:36/8	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:16/15	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56 06:21-06:31/10	22:02 06:27-06:37/10	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:17/16	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56 06:22-06:31/9	22:02 06:27-06:38/11	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57 06:23-06:29/6	22:01 06:27-06:39/12	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58 06:24-06:29/5	22:00 06:26-06:40/14	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:18/18	05:41 06:11-06:22/11	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00 06:26-06:40/14	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:00-06:19/19	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59 06:26-06:41/15	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:21/8	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58 06:26-06:42/16	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:20/6	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57 06:25-06:42/17	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:30 06:00-06:19/19	05:45 06:15-06:19/4	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56 06:25-06:43/18	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:29/7	05:29 06:00-06:20/20	05:46 06:25-06:43/18	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:31/10	05:29 06:01-06:20/19	05:47 06:25-06:43/18	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:31/12	05:29 06:01-06:20/19	05:49 06:25-06:44/19	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52 06:18-06:32/14	05:29 06:01-06:20/19	05:50 06:24-06:44/20	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51 06:17-06:33/16	05:29 06:01-06:21/20	05:51 06:24-06:44/20	06:37	07:25	08:14	08:07	08:45
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20	08:39	07:51	06:50	06:42	05:49 06:16-06:34/18	05:29 06:01-06:21/20	05:52 06:24-06:44/20	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:15-06:33/18	05:30 06:01-06:21/20	05:54 06:25-06:44/19	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47 06:15-06:34/19	05:30 06:02-06:22/20	05:55 06:25-06:44/19	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:15-06:34/19	05:30 06:02-06:22/20	05:56 06:25-06:44/19	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44 06:15-06:34/19	05:30 06:02-06:22/20	05:58 06:26-06:43/17	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43 06:15-06:34/19	05:31 06:03-06:22/19	05:59 06:28-06:43/15	06:46	07:35	07:24	08:17	08:48
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	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:15-06:34/19	05:31 06:03-06:22/19	06:02 06:30-06:41/11	06:49	07:38	07:28	08:20	08:49
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	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:07-06:08/1	05:32 06:03-06:22/19	06:05 06:33-06:39/6	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47 06:17-06:34/17	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:11/5	05:33 06:04-06:23/19	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48 06:17-06:34/17	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:12/7		06:07	06:55		07:35		08:50
	17:33		20:15		21:49 06:17-06:34/17		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	296	630	575	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

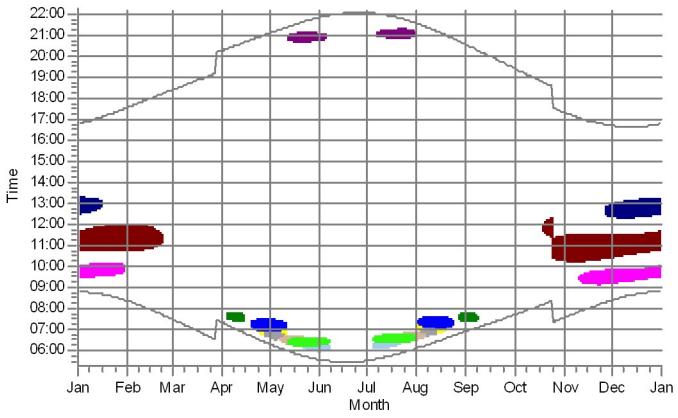
Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 05:39/4.1.264

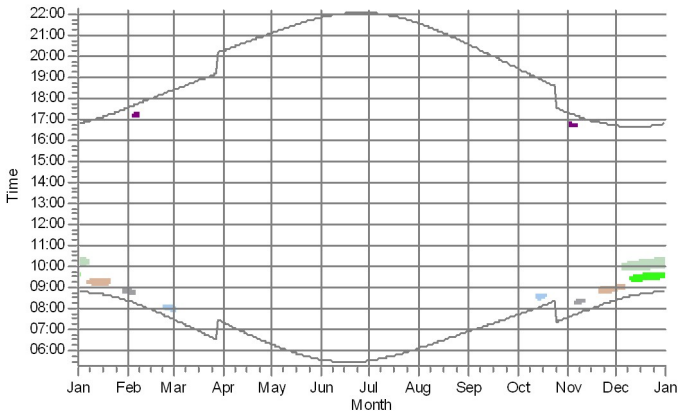
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

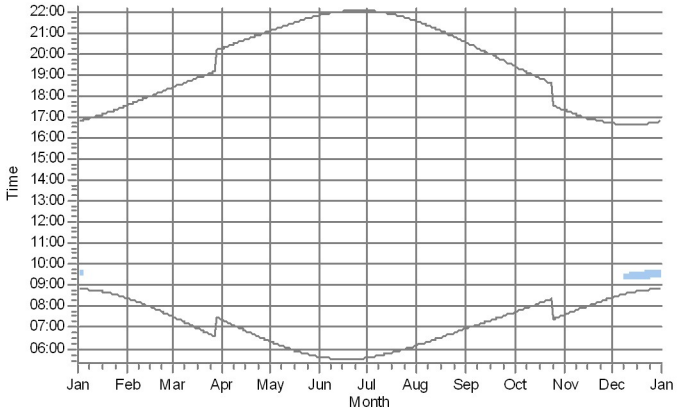
KLZ_WT23: KLZ_WT23 Stukw erkers



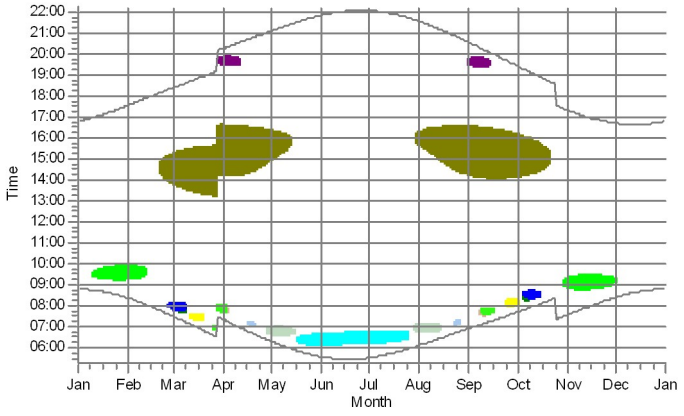
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 1



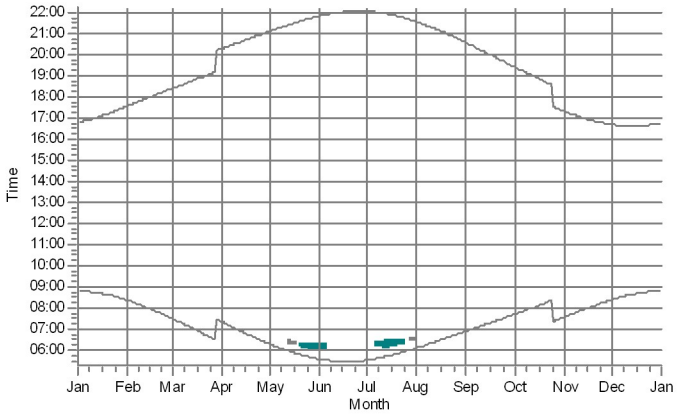
ATS_WT01: NORDEX N149/5.X-pow ercurve 5700 149.0 !O! hub: 156,5 m



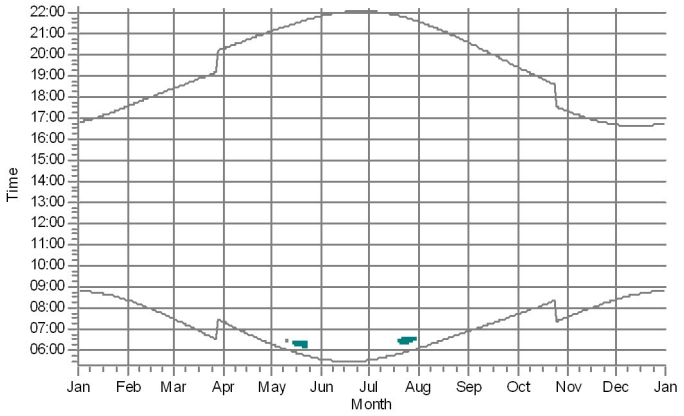
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 r



EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

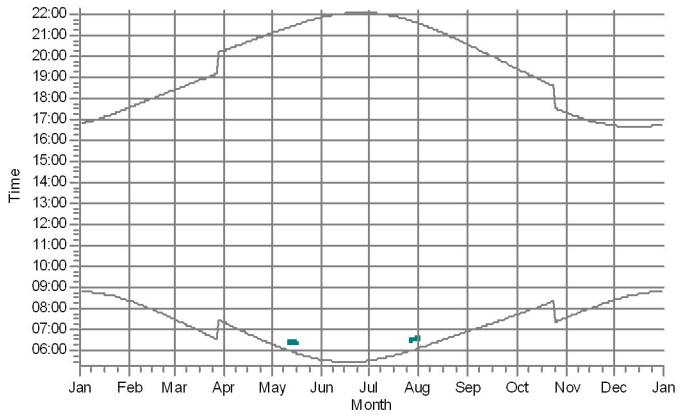
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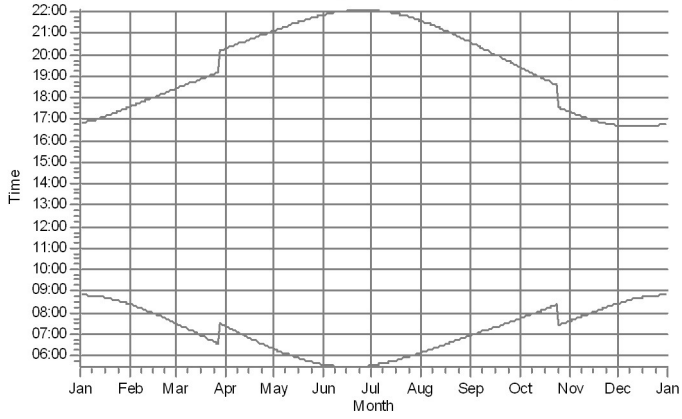
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

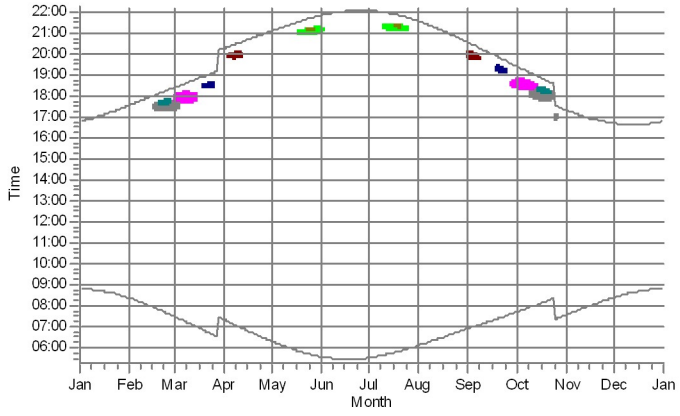
EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 20



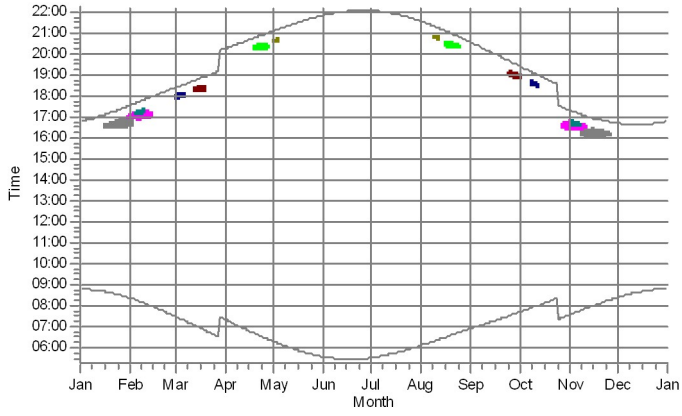
EAM_WT05: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 20



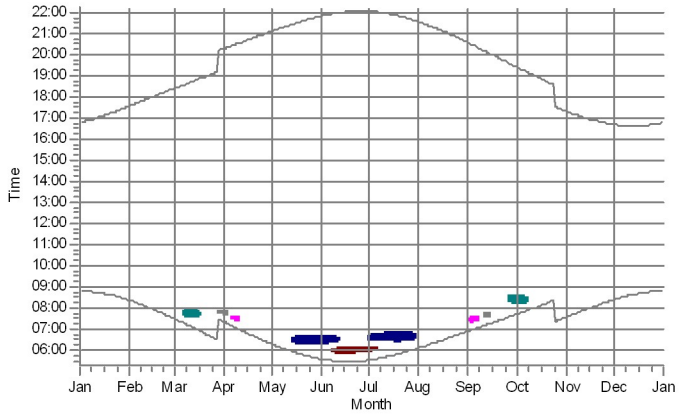
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



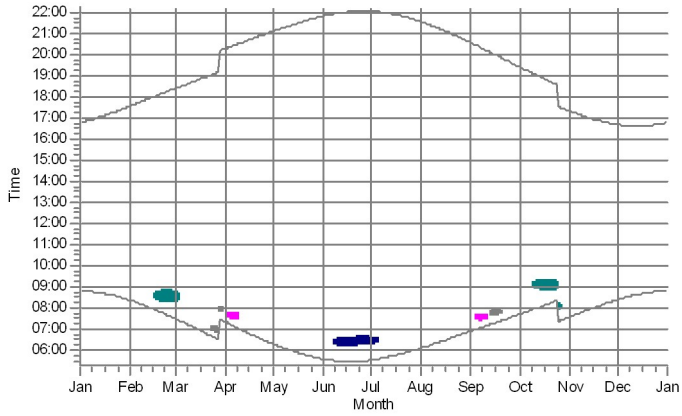
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent

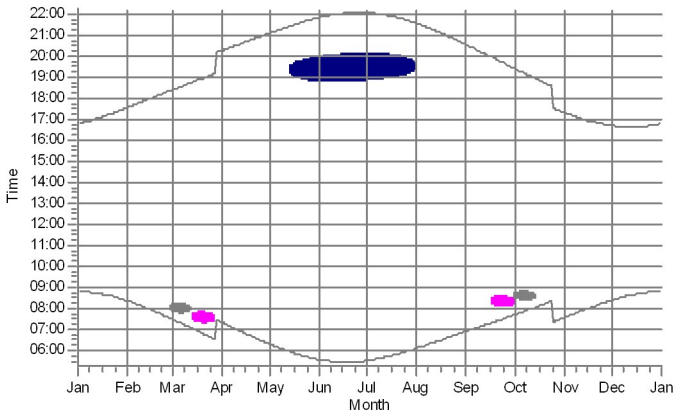
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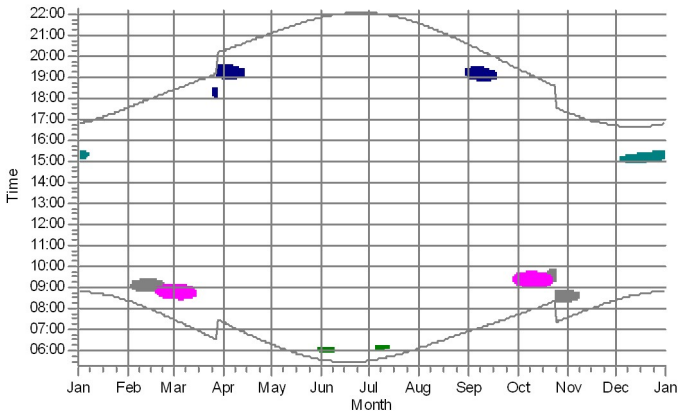
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

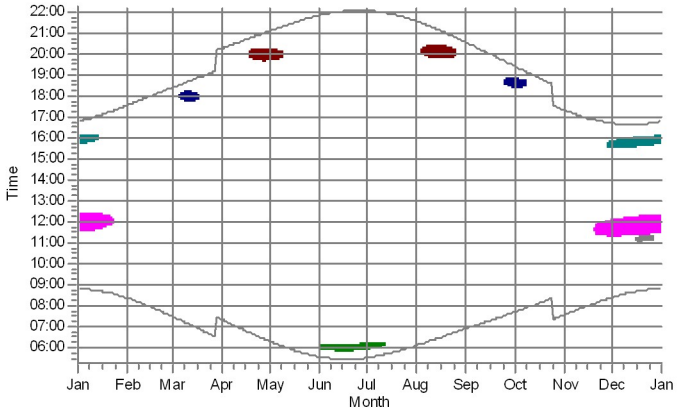
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



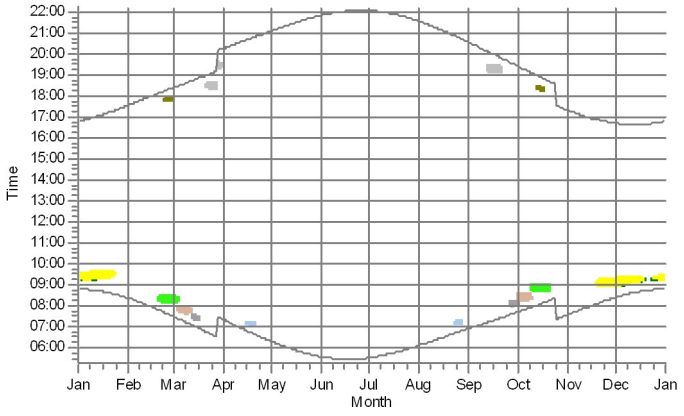
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



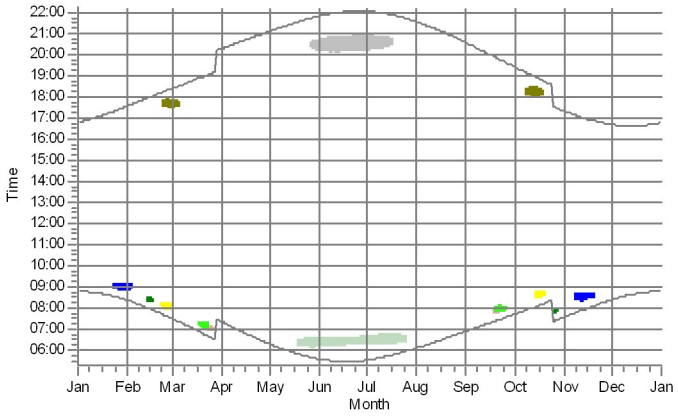
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



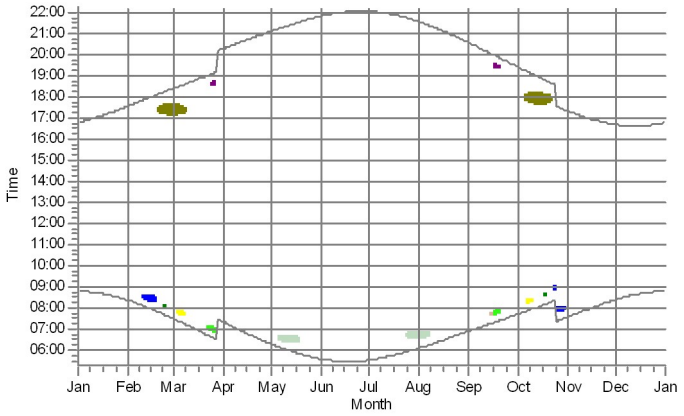
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

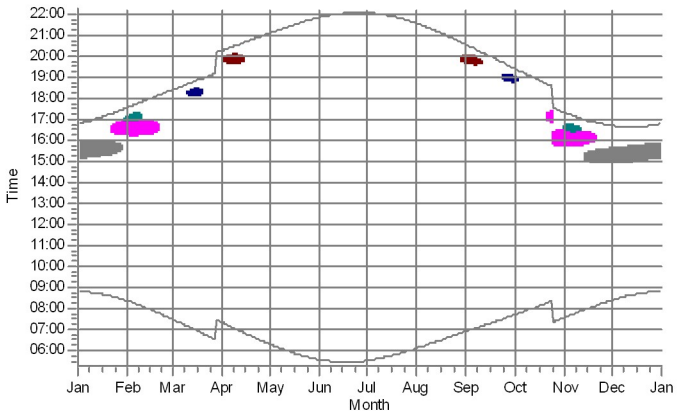
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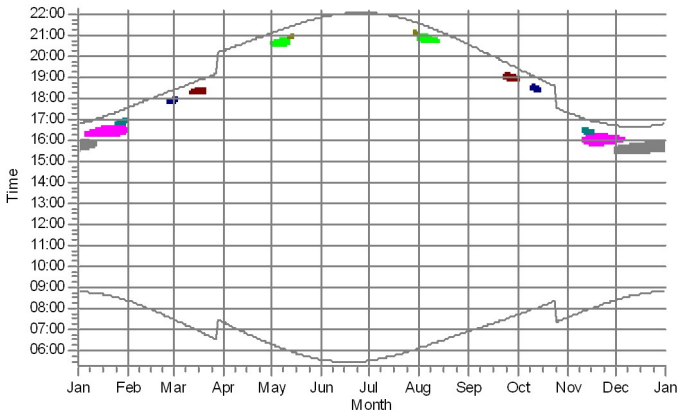
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

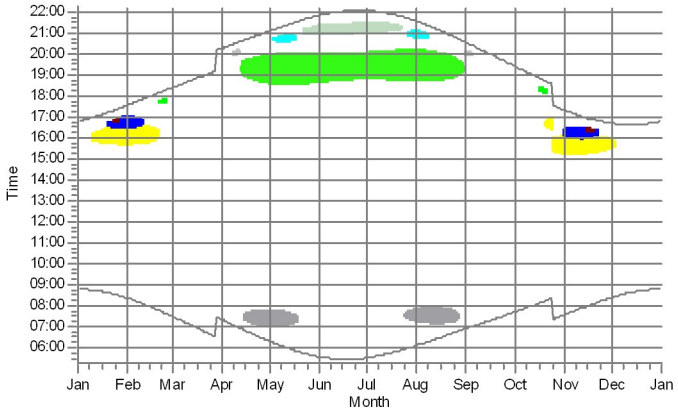
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



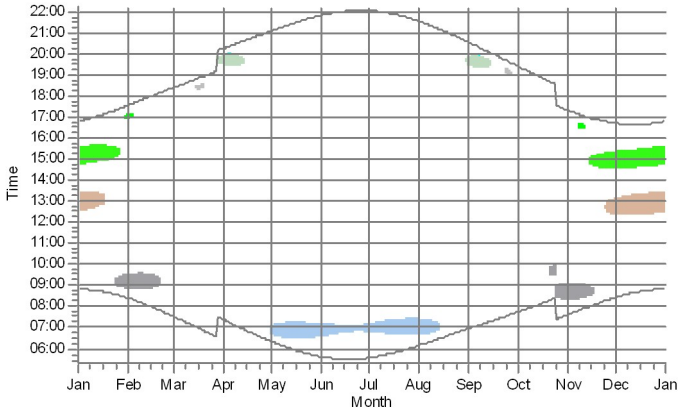
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



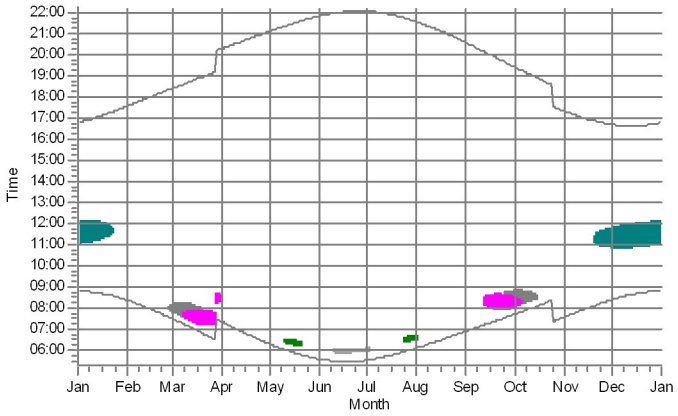
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



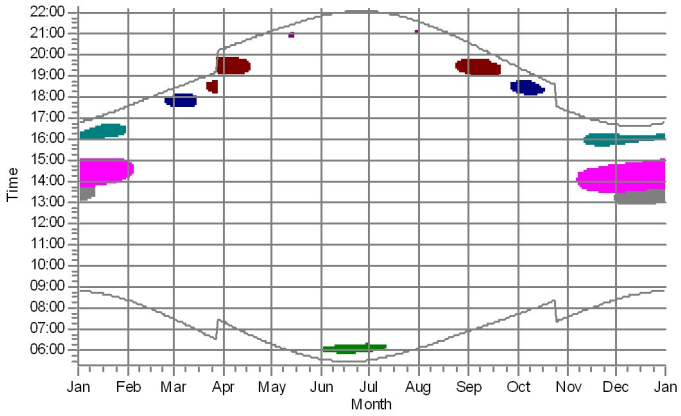
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

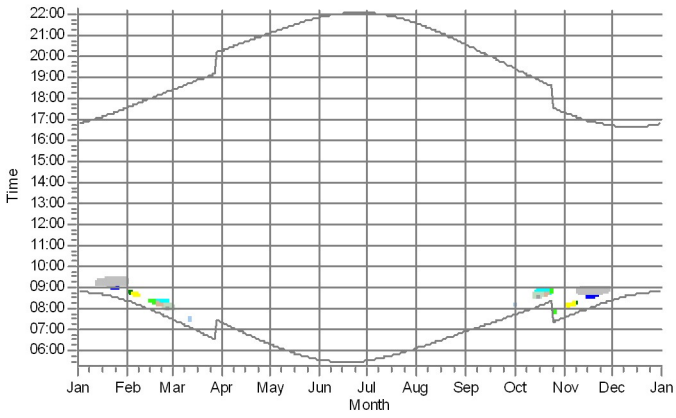
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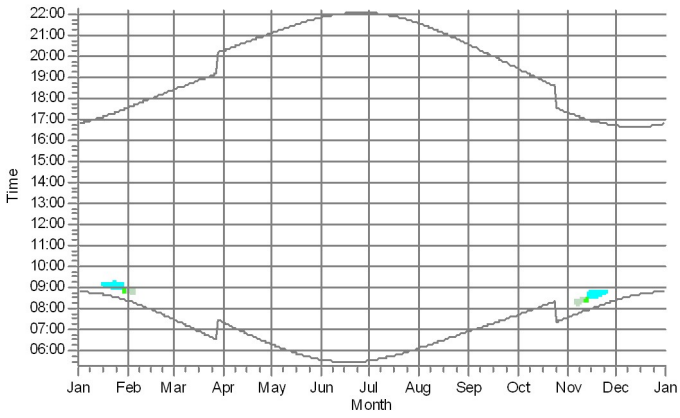
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

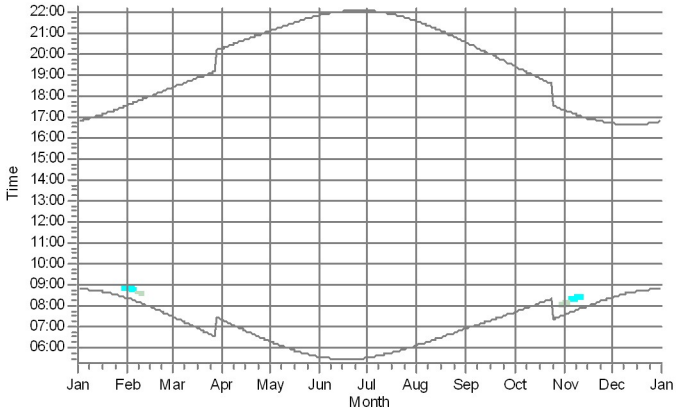
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 23



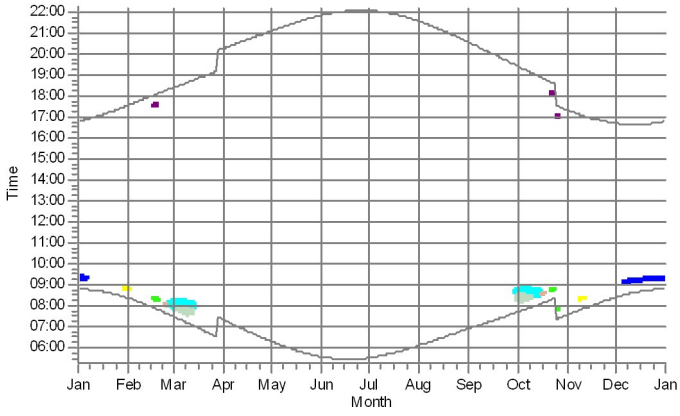
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



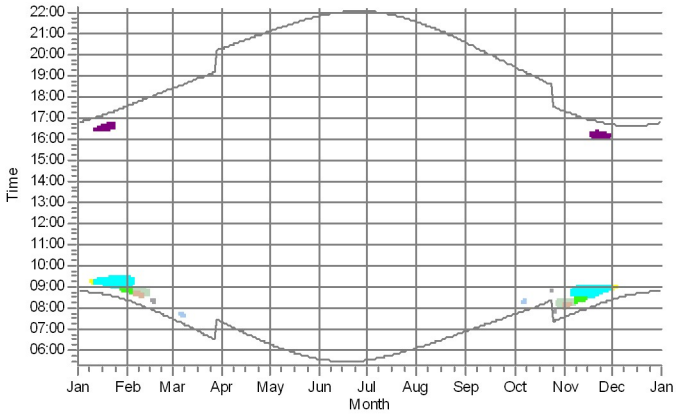
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



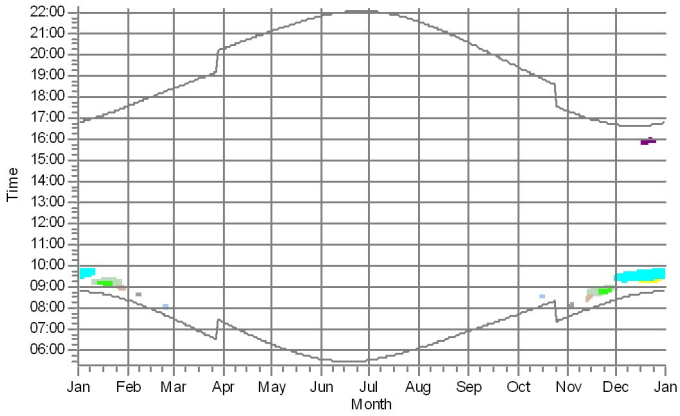
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

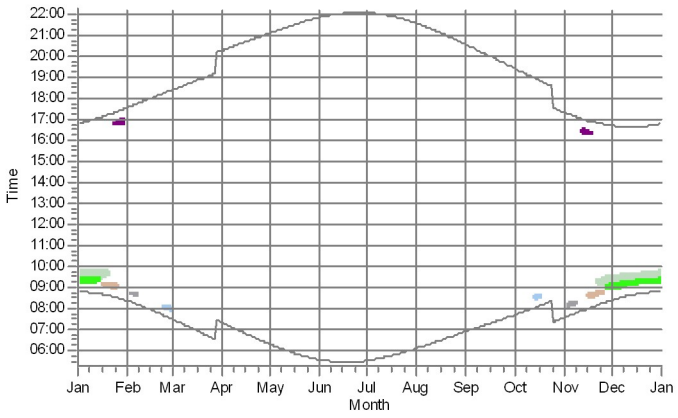
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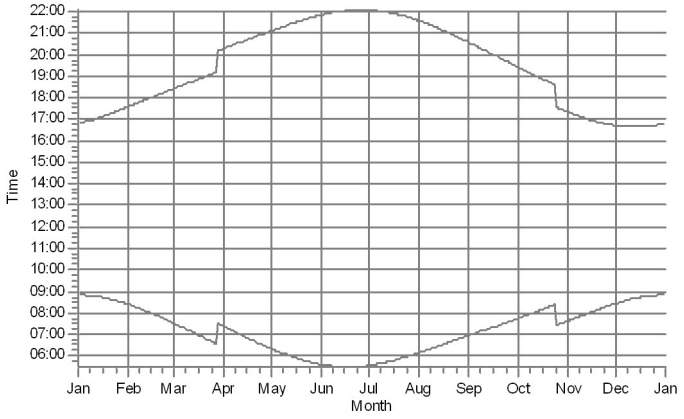
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

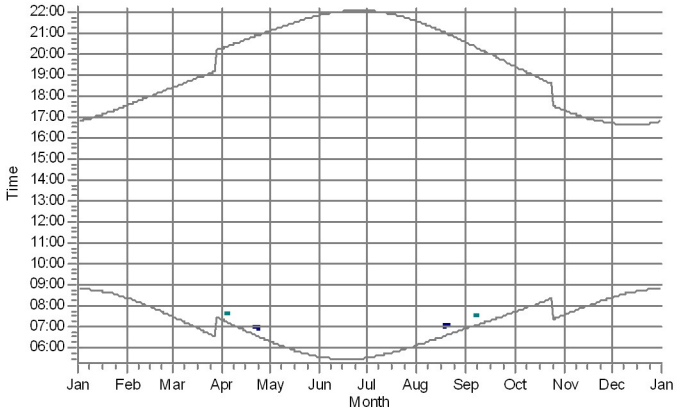
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 19



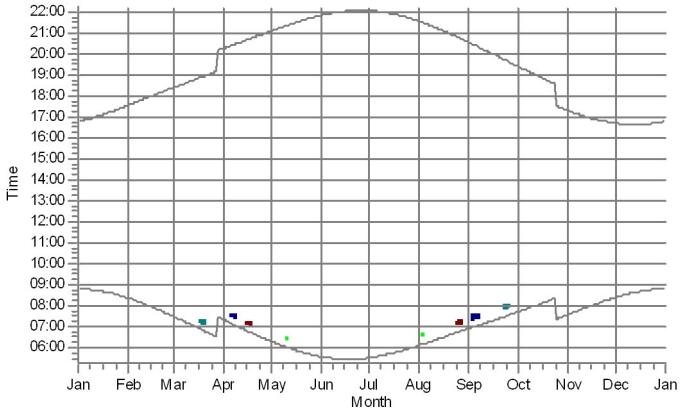
RIN_WT01: Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,



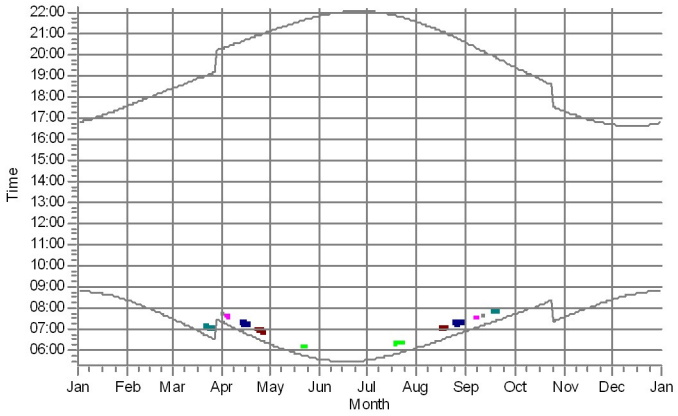
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



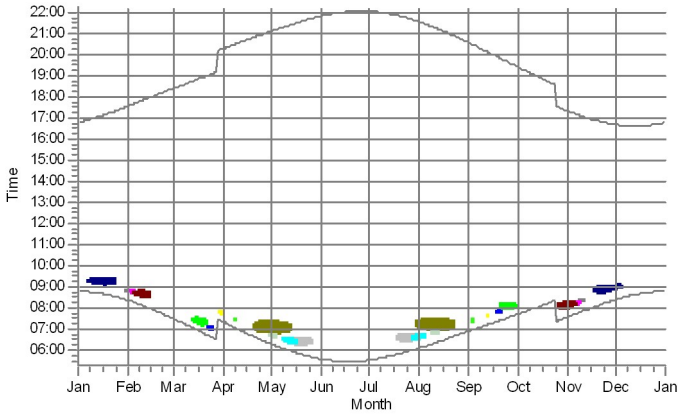
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 r



Shadow receptors

- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

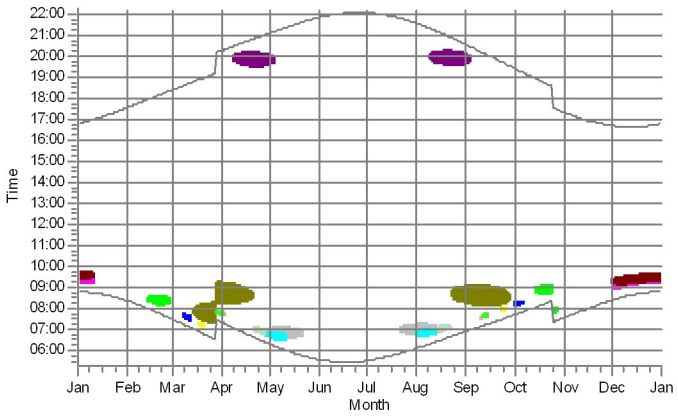
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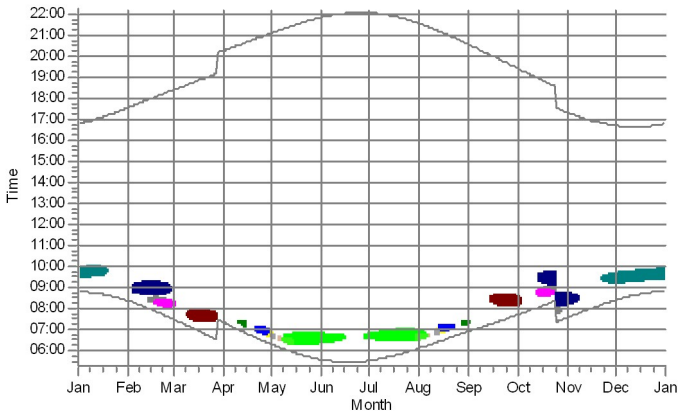
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

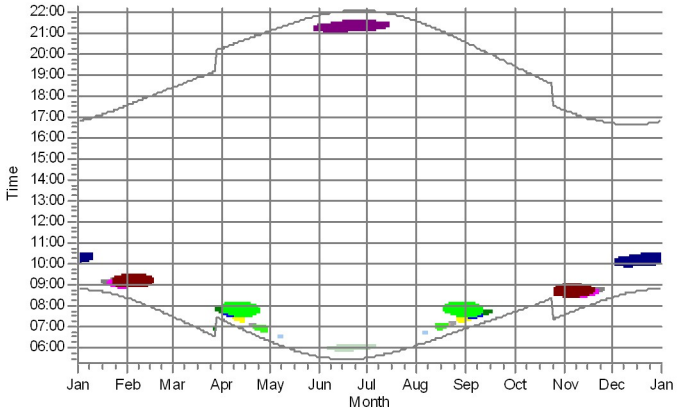
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



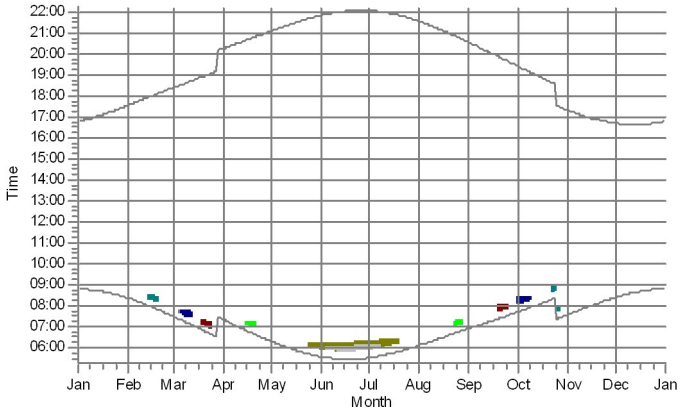
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



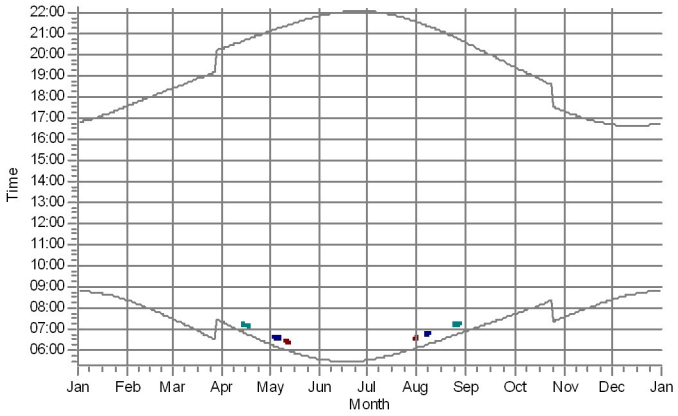
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



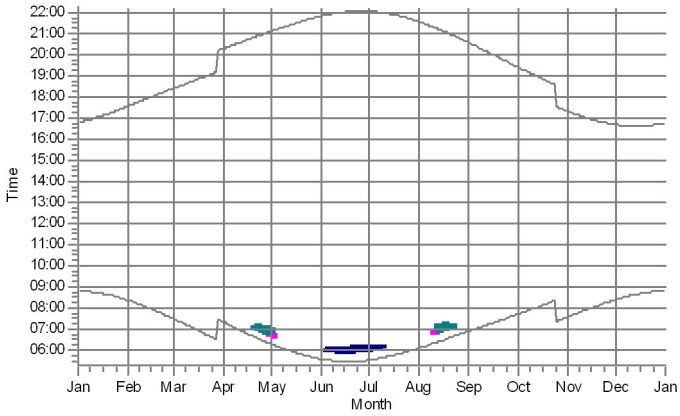
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0



SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0



SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

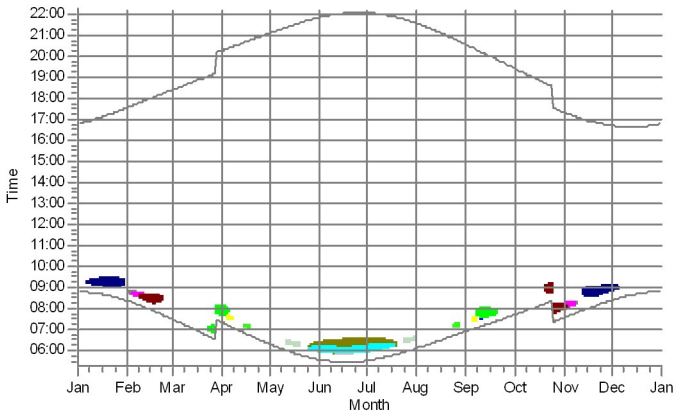
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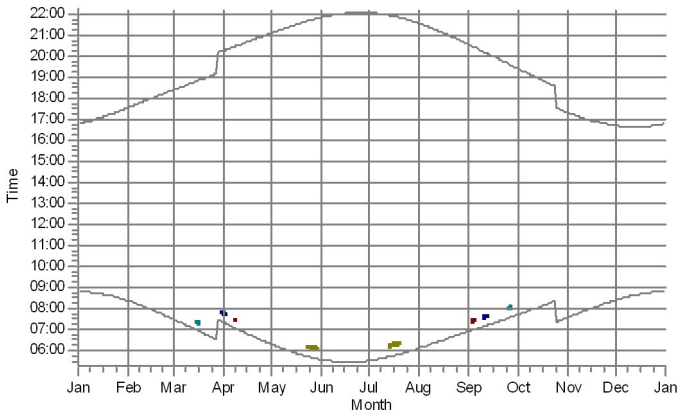
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B

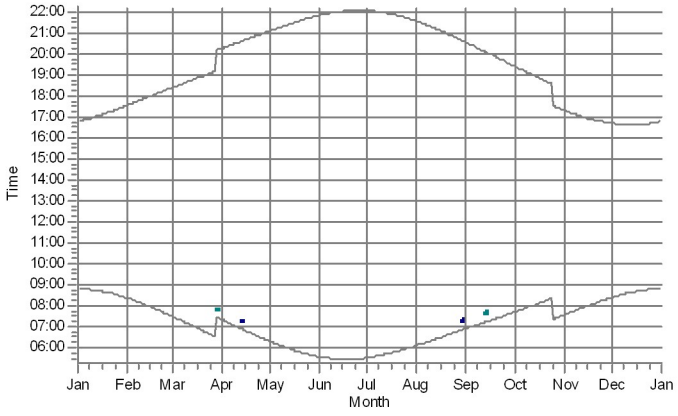
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



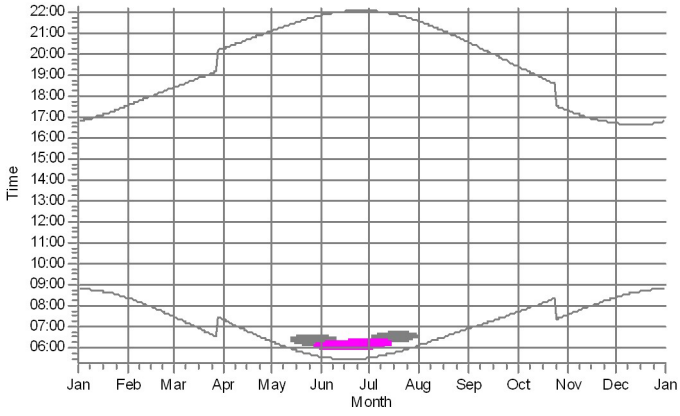
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m



Shadow receptors

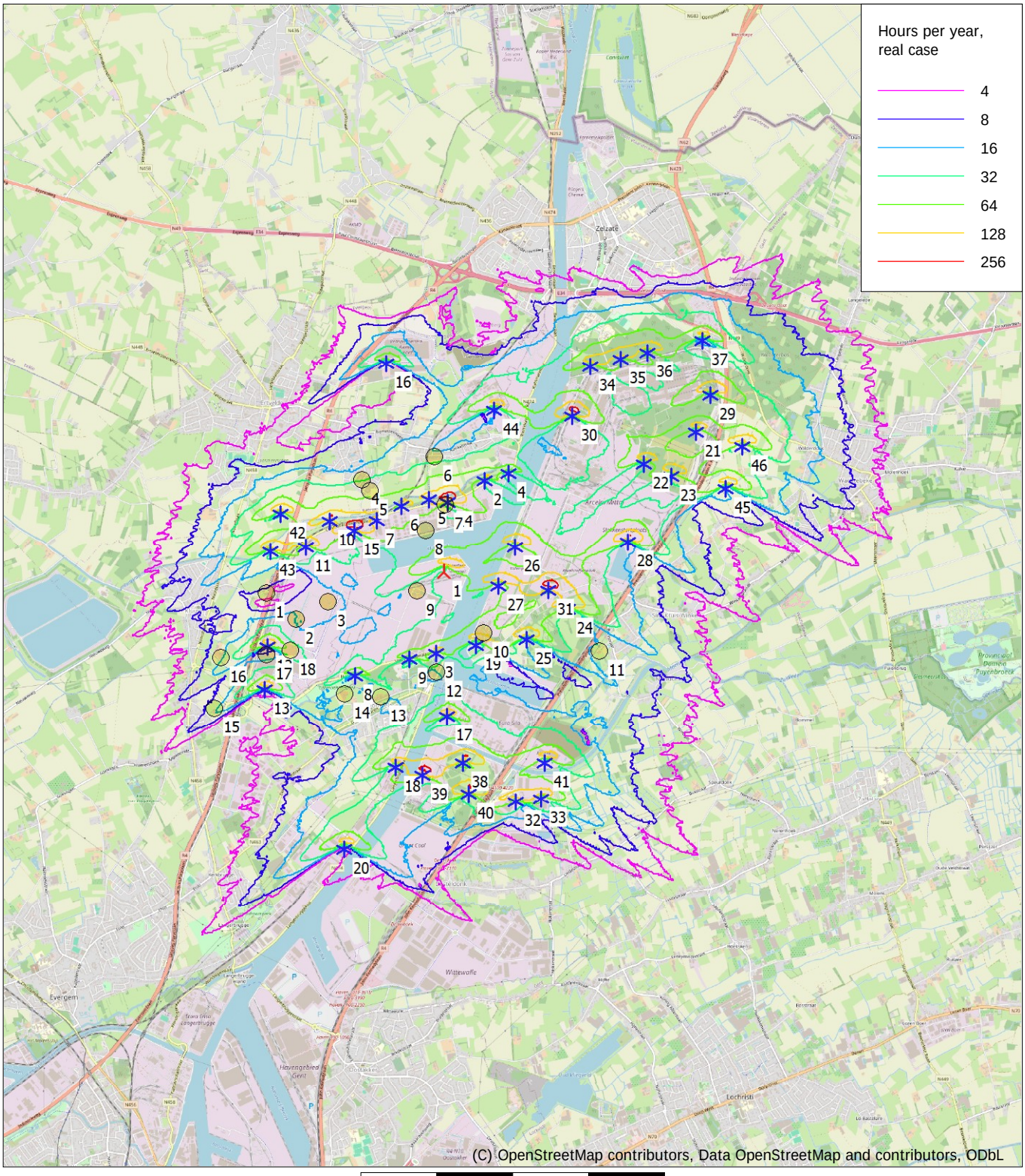
- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

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SHADOW - Map

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.600 North: 205.380

New WTG Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

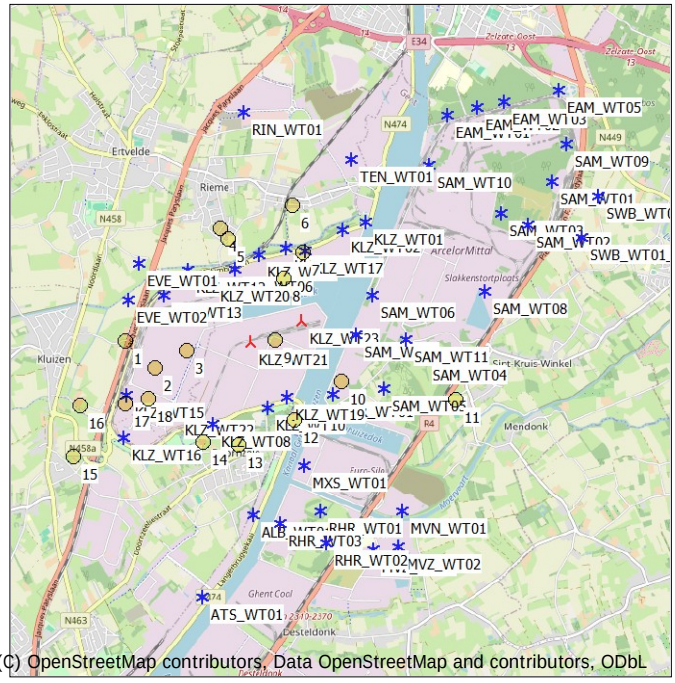
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



Scale 1:100.000

New WTG | Existing WTG | Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EAM_WT01	110.746	208.330	9,8	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT02	111.134	208.423	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT03	111.493	208.509	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT05	112.214	208.658	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT19	108.589	204.627	5,0	VESTAS V168 - FICTIE...	Yes	VESTAS	V168 - FICTIEF-5.600	5.600	168,0	166,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT21	108.099	205.347	10,0	KLZ_WT21 Armasteel	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	162,5	100.000	-
KLZ_WT22	107.120	204.429	6,4	KLZ_WT22 Magelaanst...	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-
KLZ_WT23	108.781	205.627	9,7	KLZ_WT23 Stukwerkers	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RIN_WT01	108.045	208.389	10,0	Siemens SWT-3.2-101 ...	Yes	Siemens	SWT-3.2-101-3.200	3.200	101,0	127,5	100.000	16,0
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2

To be continued on next page...

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Shadow data Power, rated	Rotor diameter	Hub height	Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	Ooievaarstraat 7, 9940 Evergem	107.712	206.856	6,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Speidamstraat 58, 9940 Evergem	107.822	206.713	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Rimewegel 46, 9940 Evergem	108.680	207.151	7,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Schuitstraat 1, 9042 Gent	110.830	204.575	6,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 41, 9940 Evergem	105.749	203.857	8,6	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	80:31	236	0:50	14:41
2	Pachtgoederen 2, 9940 Evergem	214:33	245	1:56	39:04
3	Pachtgoederen 2, 9940 Evergem	150:10	260	1:19	33:14
4	Ooievaarstraat 7, 9940 Evergem	178:33	265	2:02	31:52
5	Speidamstraat 58, 9940 Evergem	295:28	295	2:35	53:25
6	Rimewegel 46, 9940 Evergem	149:10	271	2:06	25:04
7	Christoffel Columbuslaan 23, 9042 Gent	219:27	319	1:37	47:42
8	Christoffel Columbuslaan 23, 9042 Gent	277:23	281	2:07	50:28
9	Willem van Rubroeckstraat 2, 9042 Gent	425:15	338	2:21	107:32
10	Arbedkaai 3, 9042 Gent	472:16	243	3:57	134:53
11	Schuitstraat 1, 9042 Gent	66:17	232	0:46	16:23
12	Terdonkkaai 8, 9042 Gent	79:46	213	0:43	20:16
13	Doornzele Dries 107, 9940 Evergem	122:29	270	1:16	28:12
14	Abdijdreef 2, 9940 Evergem	127:55	300	1:04	29:18
15	Hageland 41, 9940 Evergem	70:51	173	0:45	20:19
16	Molendreef 5, 9940 Evergem	87:32	196	0:57	21:10
17	Amerigo Vespuccistraat 2A, 9940 Evergem	125:15	264	1:15	27:48
18	Pachtgoederen 1, 9940 Evergem	398:58	341	1:55	96:12

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:40	2:20
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	4:26	0:31
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	370:29	105:48
EAM_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)	4:47	1:28
EAM_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)	1:38	0:30
EAM_WT03	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)	0:39	0:11
EAM_WT05	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)	0:00	0:00
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	29:05	6:50
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:11	4:09
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	23:51	6:46
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	19:04	4:28
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	86:42	20:31
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	61:36	12:33
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	77:09	14:15
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	29:37	5:09
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	55:26	13:59
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	84:42	16:16
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	36:24	6:49
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	287:31	71:11
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	161:20	33:13
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	86:39	15:15
KLZ_WT19	VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)	159:12	36:28
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	183:05	35:20
KLZ_WT21	KLZ_WT21 Armasteel	485:17	131:16
KLZ_WT22	KLZ_WT22 Magelaanstraat	493:37	101:09
KLZ_WT23	KLZ_WT23 Stukwerkers	243:26	45:00
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:27	2:37
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	20:22	3:50
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	26:36	3:59
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	20:10	2:32
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	30:17	3:50
RIN_WT01	Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)	0:00	0:00
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:19	0:05
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:12	0:19
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	3:00	0:50
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	40:04	10:12
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	118:12	28:21
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	92:28	19:38
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	76:53	16:15
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	15:14	4:19
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:48	0:14
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	11:01	3:19
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	48:19	11:38
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:09	0:20
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:10	0:02
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	25:01	7:40

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

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SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24			07:32		07:58 (KLZ_WT19)	07:23		07:48 (SAM_WT07)	06:20			05:36		06:04 (KLZ_WT05)
	16:48	41	10:30 (KLZ_WT22)	17:35			18:25	16	08:14 (KLZ_WT19)	20:17	29	08:17 (KLZ_WT21)	21:06			21:51	2	06:06 (KLZ_WT05)
2	08:50		09:20 (KLZ_WT08)	08:23		08:48 (MVN_WT01)	07:30		07:53 (CBR_WT01)	07:21		07:52 (KLZ_WT21)	06:18			05:36		06:04 (KLZ_WT05)
	16:49	43	10:31 (KLZ_WT22)	17:37	1	08:49 (MVN_WT01)	18:27	15	08:13 (KLZ_WT19)	20:19	24	08:16 (KLZ_WT21)	21:08			21:52	3	06:07 (KLZ_WT05)
3	08:49		09:20 (KLZ_WT08)	08:21		08:46 (MVN_WT01)	07:28		07:51 (CBR_WT01)	07:19		07:52 (KLZ_WT21)	06:17			05:35		06:03 (KLZ_WT05)
	16:50	44	10:32 (KLZ_WT22)	17:38	2	08:48 (MVN_WT01)	18:28	16	08:12 (KLZ_WT19)	20:20	23	08:15 (KLZ_WT21)	21:10			21:53	3	06:06 (KLZ_WT05)
4	08:49		09:19 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (CBR_WT01)	07:17		07:53 (KLZ_WT21)	06:15			05:34		06:02 (KLZ_WT05)
	16:51	44	10:31 (KLZ_WT22)	17:40	1	08:46 (MVN_WT01)	18:30	14	08:10 (KLZ_WT19)	20:22	21	08:14 (KLZ_WT21)	21:11			21:54	4	06:06 (KLZ_WT05)
5	08:49		09:19 (KLZ_WT08)	08:18			07:24		07:47 (CBR_WT01)	07:14		07:37 (KLZ_WT23)	06:13			05:34		06:02 (KLZ_WT05)
	16:53	45	10:32 (KLZ_WT22)	17:42			18:32	8	07:55 (CBR_WT01)	20:24	26	08:13 (KLZ_WT21)	21:13			21:55	5	06:07 (KLZ_WT20)
6	08:49		09:18 (KLZ_WT08)	08:16			07:22		07:44 (CBR_WT01)	07:12		07:34 (KLZ_WT23)	06:11			05:33		06:01 (KLZ_WT05)
	16:54	46	10:32 (KLZ_WT22)	17:44			18:33	10	07:54 (CBR_WT01)	20:25	26	08:10 (KLZ_WT21)	21:14			21:56	6	06:07 (KLZ_WT20)
7	08:48		09:18 (KLZ_WT08)	08:15			07:19		07:43 (CBR_WT01)	07:10		07:32 (KLZ_WT23)	06:09			05:32		06:01 (KLZ_WT05)
	16:55	47	10:33 (KLZ_WT22)	17:46			18:35	10	07:53 (CBR_WT01)	20:27	24	08:07 (KLZ_WT21)	21:16			21:57	7	06:08 (KLZ_WT20)
8	08:48		09:17 (KLZ_WT08)	08:13			07:17		07:45 (CBR_WT01)	07:08		07:30 (KLZ_WT23)	06:08			05:32		06:01 (KLZ_WT06)
	16:56	48	10:33 (KLZ_WT22)	17:47			18:37	6	07:51 (CBR_WT01)	20:29	16	07:46 (KLZ_WT23)	21:18			21:57	9	06:10 (KLZ_WT20)
9	08:48		09:18 (KLZ_WT08)	08:11			07:15			07:06		07:29 (KLZ_WT23)	06:06			05:31		06:00 (KLZ_WT06)
	16:58	48	10:34 (KLZ_WT22)	17:49			18:39			20:30	18	07:47 (KLZ_WT23)	21:19			21:58	9	06:09 (KLZ_WT20)
10	08:47		09:18 (KLZ_WT08)	08:09			07:13		07:35 (SAM_WT05)	07:03		07:29 (KLZ_WT23)	06:04			05:31		06:00 (KLZ_WT06)
	16:59	48	10:34 (KLZ_WT22)	17:51			18:40	1	07:36 (SAM_WT05)	20:32	18	07:47 (KLZ_WT23)	21:21			21:59	10	06:10 (KLZ_WT20)
11	08:47		09:15 (RHR_WT01)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:24 (SAM_WT06)	06:03		06:28 (KLZ_WT17)	05:31		06:00 (KLZ_WT06)
	17:00	50	10:35 (KLZ_WT22)	17:53			18:42	2	07:35 (SAM_WT05)	20:34	18	07:46 (KLZ_WT23)	21:22	1	06:29 (KLZ_WT17)	22:00	11	06:11 (KLZ_WT20)
12	08:46		09:15 (RHR_WT01)	08:06			07:08			06:59		07:21 (SAM_WT06)	06:01		06:26 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:02	49	10:36 (KLZ_WT22)	17:55			18:44			20:35	20	07:45 (KLZ_WT23)	21:24	3	06:29 (KLZ_WT17)	22:00	12	06:11 (KLZ_WT20)
13	08:45		09:14 (RHR_WT01)	08:04			07:06			06:57		07:19 (SAM_WT06)	06:00		06:25 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:03	48	10:36 (KLZ_WT22)	17:56			18:45			20:37	20	07:44 (KLZ_WT23)	21:25	4	06:29 (KLZ_WT17)	22:01	12	06:11 (KLZ_WT20)
14	08:45		09:13 (RHR_WT01)	08:02		08:26 (KLZ_WT10)	07:04			06:55		07:17 (SAM_WT06)	05:58		06:23 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:05	45	10:36 (KLZ_WT22)	17:58	2	08:28 (KLZ_WT10)	18:47			20:39	18	07:42 (KLZ_WT23)	21:27	5	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
15	08:44		09:59 (KLZ_WT22)	08:00		08:24 (KLZ_WT10)	07:02			06:53		07:15 (SAM_WT06)	05:56		06:22 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:06	37	10:36 (KLZ_WT22)	18:00	3	08:27 (KLZ_WT10)	18:49			20:40	15	07:40 (KLZ_WT23)	21:28	6	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
16	08:43		09:59 (KLZ_WT22)	07:58		08:22 (KLZ_WT10)	06:59			06:50			05:55		06:21 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:08	37	10:36 (KLZ_WT22)	18:02	4	08:26 (KLZ_WT10)	18:51			20:42			21:30	7	06:28 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
17	08:42		10:00 (KLZ_WT22)	07:57			06:57			06:48			05:54		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:09	36	10:36 (KLZ_WT22)	18:04			18:52			20:43			21:31	8	06:27 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
18	08:41		10:01 (KLZ_WT22)	07:55			06:55			06:46			05:52		06:18 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:11	35	10:36 (KLZ_WT22)	18:05			18:54			20:45			21:33	8	06:26 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
19	08:40		10:01 (KLZ_WT22)	07:53			06:53			06:44			05:51		06:17 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:12	36	10:37 (KLZ_WT22)	18:07			18:56			20:47			21:34	8	06:25 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
20	08:39		10:02 (KLZ_WT22)	07:51			06:50			06:42			05:49		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:14	35	10:37 (KLZ_WT22)	18:09			18:57			20:48			21:35	5	06:24 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
21	08:38		10:02 (KLZ_WT22)	07:49			06:48			06:40			05:48			05:30		05:59 (KLZ_WT06)
	17:16	34	10:36 (KLZ_WT22)	18:11			18:59			20:50			21:37			22:04	15	06:14 (KLZ_WT20)
22	08:37		10:03 (KLZ_WT22)	07:47		08:10 (KLZ_WT19)	06:46			06:38			05:47			05:30		06:00 (KLZ_WT06)
	17:17	33	10:36 (KLZ_WT22)	18:12	2	08:12 (KLZ_WT19)	19:01			20:52			21:38			22:05	14	06:14 (KLZ_WT20)
23	08:36		10:04 (KLZ_WT22)	07:45		08:08 (KLZ_WT19)	06:44		07:06 (KLZ_WT21)	06:36			05:46			05:30		06:00 (KLZ_WT06)
	17:19	31	10:35 (KLZ_WT22)	18:14	6	08:14 (KLZ_WT19)	19:02	4	07:10 (KLZ_WT21)	20:53			21:40			22:05	14	06:14 (KLZ_WT20)
24	08:35		10:06 (KLZ_WT22)	07:43		08:06 (KLZ_WT19)	06:41		07:04 (KLZ_WT21)	06:34			05:44			05:31		06:00 (KLZ_WT06)
	17:21	29	10:35 (KLZ_WT22)	18:16	9	08:15 (KLZ_WT19)	19:04	10	07:14 (KLZ_WT21)	20:55			21:41			22:05	14	06:14 (KLZ_WT20)
25	08:34		10:06 (KLZ_WT22)	07:41		08:04 (KLZ_WT19)	06:39		07:01 (KLZ_WT21)	06:32			05:43			05:31		06:01 (KLZ_WT06)
	17:22	28	10:34 (KLZ_WT22)	18:18	11	08:15 (KLZ_WT19)	19:06	14	07:15 (KLZ_WT21)	20:57			21:42			22:05	14	06:15 (KLZ_WT20)
26	08:32		10:08 (KLZ_WT22)	07:39		08:02 (KLZ_WT19)	06:37		06:59 (KLZ_WT21)	06:30			05:42			05:31		06:01 (KLZ_WT06)
	17:24	25	10:33 (KLZ_WT22)	18:20	14	08:16 (KLZ_WT19)	19:07	17	07:16 (KLZ_WT21)	20:58			21:43			22:05	14	06:15 (KLZ_WT20)
27	08:31		10:09 (KLZ_WT22)	07:36		08:00 (KLZ_WT19)	06:35		06:57 (KLZ_WT21)	06:28			05:41			05:32		06:02 (KLZ_WT06)
	17:26	23	10:32 (KLZ_WT22)	18:21	16	08:16 (KLZ_WT19)	19:09	20	07:17 (KLZ_WT21)	21:00			21:45			22:05	13	06:15 (KLZ_WT20)
28	08:30		10:11 (KLZ_WT22)	07:34		07:57 (KLZ_WT19)	06:32		06:55 (SAM_WT07)	06:26			05:40			05:32		06:02 (KLZ_WT06)
	17:28	20	10:31 (KLZ_WT22)	18:23	18	08:15 (KLZ_WT19)	19:10	23	07:18 (KLZ_WT21)	21:01			21:46			22:05	13	06:15 (KLZ_WT20)
29	08:28		10:13 (KLZ_WT22)				07:30		07:52 (SAM_WT07)	06:24			05:39			05:33		06:03 (KLZ_WT06)
	17:29	15	10:28 (KLZ_WT22)				20:12	25	08:17 (KLZ_WT21)	21:03			21:47			22:05	13	06:16 (KLZ_WT20)
30	08:27		10:17 (KLZ_WT22)				07:28		07:50 (SAM_WT07)	06:22			05:38			05:33		06:03 (KLZ_WT06)
	17:31	8	10:25 (KLZ_WT22)				20:14	27	08:17 (KLZ_WT21)	21:05			21:48			22:05	12	06:15 (KLZ_WT20)
31	08:26						07:26		07:48 (SAM_WT07)				05:37		06:05 (KLZ_WT05)			
	17:33						20:15	29	08:17 (KLZ_WT21)				21:49	1	06:06 (KLZ_WT05)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1108			89			267			316			56			325	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,56			0,55			0,60			0,63			0,70			0,71	
Total reduction		0,14			0,16			0,22			0,28			0,31			0,31	
Total, real		150			14			59			90			17			100	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	18	07:45 (KLZ_WT23)	19:25			17:21			16:42	50	10:17 (KLZ_WT22)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59		07:27 (KLZ_WT23)	07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31	18	07:45 (KLZ_WT23)	19:23	2	08:13 (SAM_WT05)	17:19			16:42	48	10:17 (KLZ_WT22)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00		07:27 (KLZ_WT23)	07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29	18	07:45 (KLZ_WT23)	19:21	2	08:14 (SAM_WT05)	17:17			16:41	48	10:17 (KLZ_WT22)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02		07:27 (KLZ_WT23)	07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27	16	07:43 (KLZ_WT23)	19:19			17:16			16:40	48	10:18 (KLZ_WT22)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03		07:29 (KLZ_WT23)	07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24	24	08:04 (KLZ_WT21)	19:17	4	08:27 (CBR_WT01)	17:14			16:40	47	10:18 (KLZ_WT22)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05		07:30 (KLZ_WT23)	07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22	26	08:06 (KLZ_WT21)	19:14	8	08:28 (CBR_WT01)	17:12			16:40	46	10:18 (KLZ_WT22)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07		07:32 (KLZ_WT23)	07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20	27	08:08 (KLZ_WT21)	19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	45	10:19 (KLZ_WT22)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08		07:33 (KLZ_WT23)	07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18	23	08:08 (KLZ_WT21)	19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	44	10:19 (KLZ_WT22)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10		07:47 (KLZ_WT21)	07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16	22	08:09 (KLZ_WT21)	19:08	10	08:41 (KLZ_WT19)	17:07			16:39	44	10:20 (KLZ_WT22)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11		07:45 (KLZ_WT21)	07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13	24	08:09 (KLZ_WT21)	19:05	15	08:45 (KLZ_WT19)	17:06			16:38	43	10:20 (KLZ_WT22)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	29	08:09 (KLZ_WT21)	19:03	17	08:47 (KLZ_WT19)	17:04			16:38	41	10:20 (KLZ_WT22)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02		08:32 (KLZ_WT19)	07:56		09:48 (KLZ_WT22)	08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	30	08:09 (KLZ_WT21)	19:01	16	08:48 (KLZ_WT19)	17:03	9	09:57 (KLZ_WT22)	16:38	40	10:20 (KLZ_WT22)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04		08:31 (KLZ_WT19)	07:57		09:45 (KLZ_WT22)	08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	28	08:09 (KLZ_WT21)	18:59	17	08:48 (KLZ_WT19)	17:01	15	10:00 (KLZ_WT22)	16:38	40	10:21 (KLZ_WT22)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06		08:31 (KLZ_WT19)	07:59		09:43 (KLZ_WT22)	08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	26	08:08 (KLZ_WT21)	18:57	17	08:48 (KLZ_WT19)	17:00	20	10:03 (KLZ_WT22)	16:38	39	10:21 (KLZ_WT22)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07		08:33 (KLZ_WT19)	08:01		09:42 (KLZ_WT22)	08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	23	08:07 (KLZ_WT21)	18:55	15	08:48 (KLZ_WT19)	16:59	23	10:05 (KLZ_WT22)	16:38	38	10:22 (KLZ_WT22)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09		08:35 (KLZ_WT19)	08:03		09:41 (KLZ_WT22)	08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	21	08:06 (KLZ_WT21)	18:53	13	08:48 (KLZ_WT19)	16:57	25	10:06 (KLZ_WT22)	16:38	37	10:22 (KLZ_WT22)
17	05:49			06:34			07:22		07:47 (KLZ_WT21)	08:11		08:36 (KLZ_WT19)	08:04		09:40 (KLZ_WT22)	08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57	18	08:05 (KLZ_WT21)	18:50	10	08:46 (KLZ_WT19)	16:56	28	10:08 (KLZ_WT22)	16:39	37	10:23 (KLZ_WT22)
18	05:50			06:35			07:24		07:49 (KLZ_WT21)	08:13		08:38 (KLZ_WT19)	08:06		09:40 (KLZ_WT22)	08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55	15	08:04 (KLZ_WT21)	18:48	8	08:46 (KLZ_WT19)	16:55	29	10:09 (KLZ_WT22)	16:39	36	10:22 (KLZ_WT22)
19	05:51			06:37			07:25		07:50 (KLZ_WT21)	08:14		08:40 (KLZ_WT19)	08:08		09:38 (KLZ_WT22)	08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53	11	08:01 (KLZ_WT21)	18:46	5	08:45 (KLZ_WT19)	16:53	31	10:09 (KLZ_WT22)	16:39	36	10:23 (KLZ_WT22)
20	05:53			06:38			07:27		07:52 (KLZ_WT21)	08:16			08:09		09:38 (KLZ_WT22)	08:46		09:49 (KLZ_WT22)
	21:50			20:59			19:50	6	07:58 (KLZ_WT21)	18:44			16:52	33	10:11 (KLZ_WT22)	16:39	35	10:24 (KLZ_WT22)
21	05:54			06:40			07:29			08:18			08:11		09:38 (KLZ_WT22)	08:47		09:49 (KLZ_WT22)
	21:49			20:57			19:48			18:42			16:51	34	10:12 (KLZ_WT22)	16:40	35	10:24 (KLZ_WT22)
22	05:55			06:41			07:30			08:19			08:12		09:38 (KLZ_WT22)	08:47		09:50 (KLZ_WT22)
	21:48			20:55			19:46			18:40			16:50	35	10:13 (KLZ_WT22)	16:40	35	10:25 (KLZ_WT22)
23	05:56			06:43			07:32			08:21			08:14		09:37 (KLZ_WT22)	08:48		09:50 (KLZ_WT22)
	21:47			20:53			19:44			18:38			16:49	36	10:13 (KLZ_WT22)	16:41	35	10:25 (KLZ_WT22)
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16		09:38 (KLZ_WT22)	08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48	36	10:14 (KLZ_WT22)	16:41	36	10:25 (KLZ_WT22)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17		09:38 (KLZ_WT22)	08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47	36	10:14 (KLZ_WT22)	16:42	36	10:26 (KLZ_WT22)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19		09:38 (KLZ_WT22)	08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46	36	10:14 (KLZ_WT22)	16:43	37	10:27 (KLZ_WT22)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20		09:38 (KLZ_WT22)	08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45	37	10:15 (KLZ_WT22)	16:43	37	10:27 (KLZ_WT22)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	15	07:42 (KLZ_WT23)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	45	10:16 (KLZ_WT22)	16:44	37	10:27 (KLZ_WT22)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	18	07:43 (KLZ_WT23)	19:30			17:27			16:44	48	10:16 (KLZ_WT22)	16:45	39	10:28 (KLZ_WT22)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	20	07:45 (KLZ_WT23)	19:28			17:25			16:43	49	10:17 (KLZ_WT22)	16:46	38	10:28 (KLZ_WT22)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	20	07:45 (KLZ_WT23)				17:23						16:47	40	10:29 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		128			75			423			188			609			1247	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,64			0,62			0,55			0,56			0,56	
Total reduction		0,31			0,29			0,26			0,20			0,15			0,12	
Total, real		39			22			111			37			89			153	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (KLZ_WT08)	08:24		08:50 (MXS_WT01)	07:32			07:23			06:20		06:47 (SAM_WT06)	05:36
	16:48	63	11:26 (KLZ_WT22)	17:35	115	16:35 (KLZ_WT15)	18:25			20:17			21:06	41	07:28 (KLZ_WT21)	21:51
2	08:50		09:21 (KLZ_WT08)	08:23		08:48 (MXS_WT01)	07:30			07:21			06:18		06:48 (KLZ_WT23)	05:36
	16:49	64	11:27 (KLZ_WT22)	17:36	115	16:35 (KLZ_WT15)	18:27			20:19			21:08	39	07:27 (KLZ_WT21)	21:52
3	08:49		09:21 (KLZ_WT08)	08:21		10:39 (KLZ_WT22)	07:28			07:19			06:17		06:49 (KLZ_WT23)	05:35
	16:50	66	11:28 (KLZ_WT22)	17:38	110	16:35 (KLZ_WT15)	18:28			20:20			21:10	39	07:28 (KLZ_WT21)	21:53
4	08:49		09:20 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26			07:17			06:15		06:48 (KLZ_WT23)	05:34
	16:51	67	11:28 (KLZ_WT22)	17:40	110	16:36 (KLZ_WT15)	18:30			20:22			21:11	39	07:27 (KLZ_WT21)	21:54
5	08:49		09:20 (KLZ_WT08)	08:18		08:43 (MVN_WT01)	07:24		07:46 (KLZ_WT19)	07:14		07:37 (SAM_WT11)	06:13		06:48 (KLZ_WT23)	05:34
	16:53	69	11:29 (KLZ_WT22)	17:42	109	16:35 (KLZ_WT15)	18:32	4	07:50 (KLZ_WT19)	20:24	1	07:38 (SAM_WT11)	21:13	38	07:26 (KLZ_WT21)	21:55
6	08:49		09:20 (KLZ_WT08)	08:16		08:41 (MVN_WT01)	07:21		07:44 (KLZ_WT19)	07:12		07:34 (SAM_WT11)	06:11		06:49 (KLZ_WT23)	05:33
	16:54	70	11:29 (KLZ_WT22)	17:44	110	16:35 (KLZ_WT15)	18:33	9	07:53 (KLZ_WT19)	20:25	2	07:36 (SAM_WT11)	21:14	37	07:26 (KLZ_WT21)	21:56
7	08:48		09:20 (KLZ_WT08)	08:15		08:39 (MVN_WT01)	07:19		07:42 (KLZ_WT19)	07:10		07:32 (SAM_WT11)	06:09		06:50 (KLZ_WT23)	05:32
	16:55	71	11:30 (KLZ_WT22)	17:45	110	16:35 (KLZ_WT15)	18:35	13	07:55 (KLZ_WT19)	20:27	3	07:35 (SAM_WT11)	21:16	35	07:25 (KLZ_WT21)	21:56
8	08:48		09:20 (KLZ_WT08)	08:13		08:41 (MVN_WT01)	07:17		07:40 (KLZ_WT19)	07:08			06:08		06:50 (KLZ_WT23)	05:32
	16:56	73	11:31 (KLZ_WT22)	17:47	103	16:35 (KLZ_WT15)	18:37	16	07:56 (KLZ_WT19)	20:29			21:17	34	07:24 (KLZ_WT21)	21:57
9	08:48		09:17 (RHR_WT01)	08:11		10:44 (KLZ_WT22)	07:15		07:38 (KLZ_WT19)	07:06		07:28 (SAM_WT07)	06:06		06:52 (KLZ_WT23)	05:31
	16:58	74	11:32 (KLZ_WT22)	17:49	99	16:35 (KLZ_WT15)	18:39	19	07:57 (KLZ_WT19)	20:30	2	07:30 (SAM_WT07)	21:19	31	07:23 (KLZ_WT21)	21:58
10	08:47		09:16 (RHR_WT01)	08:09		10:45 (KLZ_WT22)	07:13		07:35 (KLZ_WT19)	07:03		07:26 (SAM_WT07)	06:04		06:53 (KLZ_WT23)	05:31
	16:59	86	16:08 (KLZ_WT15)	17:51	95	16:34 (KLZ_WT15)	18:40	21	07:56 (KLZ_WT19)	20:32	5	07:31 (SAM_WT07)	21:21	29	07:22 (KLZ_WT21)	21:59
11	08:46		09:15 (RHR_WT01)	08:08		10:46 (KLZ_WT22)	07:11		07:34 (KLZ_WT19)	07:01		07:24 (SAM_WT07)	06:03		06:56 (KLZ_WT23)	05:31
	17:00	94	16:11 (KLZ_WT15)	17:53	92	16:34 (KLZ_WT15)	18:42	22	07:56 (KLZ_WT19)	20:34	7	07:31 (SAM_WT07)	21:22	25	07:21 (KLZ_WT21)	22:00
12	08:46		09:15 (RHR_WT01)	08:06		10:47 (KLZ_WT22)	07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01		07:01 (KLZ_WT21)	05:30
	17:02	99	16:14 (KLZ_WT15)	17:55	88	16:33 (KLZ_WT15)	18:44	25	07:56 (KLZ_WT19)	20:35	9	07:30 (SAM_WT07)	21:24	18	07:19 (KLZ_WT21)	22:00
13	08:45		09:14 (RHR_WT01)	08:04		10:48 (KLZ_WT22)	07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00		07:03 (KLZ_WT21)	05:30
	17:03	103	16:15 (KLZ_WT15)	17:56	83	16:32 (KLZ_WT15)	18:45	27	07:56 (KLZ_WT19)	20:37	10	07:29 (SAM_WT07)	21:25	14	07:17 (KLZ_WT21)	22:01
14	08:45		09:13 (RHR_WT01)	08:02		10:50 (KLZ_WT22)	07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58		07:05 (KLZ_WT21)	05:30
	17:05	108	16:17 (KLZ_WT15)	17:58	77	16:31 (KLZ_WT15)	18:47	28	07:54 (KLZ_WT19)	20:38	11	07:28 (SAM_WT07)	21:27	9	07:14 (KLZ_WT21)	22:02
15	08:44		09:12 (RHR_WT01)	08:00		10:52 (KLZ_WT22)	07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30
	17:06	112	16:19 (KLZ_WT15)	18:00	71	16:30 (KLZ_WT15)	18:49	30	07:54 (KLZ_WT19)	20:40	8	07:26 (SAM_WT07)	21:28			22:02
16	08:43		09:11 (RHR_WT01)	07:58		10:54 (KLZ_WT22)	06:59		07:22 (CBR_WT01)	06:50			05:55			05:30
	17:08	114	16:20 (KLZ_WT15)	18:02	63	16:29 (KLZ_WT15)	18:50	30	07:52 (KLZ_WT19)	20:42			21:30			22:03
17	08:42		09:11 (RHR_WT01)	07:57		10:57 (KLZ_WT22)	06:57		07:22 (CBR_WT01)	06:48			05:54			05:30
	17:09	116	16:22 (KLZ_WT15)	18:04	51	16:27 (KLZ_WT15)	18:52	27	07:51 (KLZ_WT19)	20:43			21:31			22:03
18	08:41		09:13 (RHR_WT01)	07:55		11:04 (KLZ_WT22)	06:55		07:17 (SAM_WT05)	06:46			05:52			05:30
	17:11	114	16:23 (KLZ_WT15)	18:05	34	16:26 (KLZ_WT15)	18:54	21	07:47 (KLZ_WT19)	20:45			21:33			22:03
19	08:40		09:25 (KLZ_WT08)	07:53		16:02 (KLZ_WT15)	06:53		07:15 (SAM_WT05)	06:44		07:10 (KLZ_WT21)	05:51			05:30
	17:12	113	16:25 (KLZ_WT15)	18:07	21	16:23 (KLZ_WT15)	18:56	13	07:32 (CBR_WT01)	20:47	9	07:19 (KLZ_WT21)	21:34			22:04
20	08:39		09:26 (KLZ_WT08)	07:51		16:05 (KLZ_WT15)	06:50		07:13 (SAM_WT05)	06:42		07:06 (KLZ_WT21)	05:49			05:30
	17:14	114	16:26 (KLZ_WT15)	18:09	15	16:20 (KLZ_WT15)	18:57	5	07:18 (SAM_WT05)	20:48	16	07:22 (KLZ_WT21)	21:35			22:04
21	08:38		09:27 (KLZ_WT08)	07:49			06:48			06:40		07:04 (KLZ_WT21)	05:48			05:30
	17:16	113	16:26 (KLZ_WT15)	18:11			18:59			20:50	20	07:24 (KLZ_WT21)	21:37			22:04
22	08:37		09:29 (KLZ_WT08)	07:47		08:10 (KLZ_WT10)	06:46			06:38		07:02 (KLZ_WT21)	05:47			05:30
	17:17	111	16:28 (KLZ_WT15)	18:12	1	08:11 (KLZ_WT10)	19:01			20:52	23	07:25 (KLZ_WT21)	21:38			22:05
23	08:36		09:32 (KLZ_WT08)	07:45		08:08 (KLZ_WT10)	06:44			06:36		07:01 (KLZ_WT21)	05:46			05:30
	17:19	108	16:29 (KLZ_WT15)	18:14	4	08:12 (KLZ_WT10)	19:02			20:53	25	07:26 (KLZ_WT21)	21:40			22:05
24	08:35		10:37 (KLZ_WT22)	07:43		08:06 (KLZ_WT10)	06:41			06:34		06:59 (KLZ_WT21)	05:44			05:31
	17:21	106	16:30 (KLZ_WT15)	18:16	6	08:12 (KLZ_WT10)	19:04			20:55	28	07:27 (KLZ_WT21)	21:41			22:05
25	08:34		10:36 (KLZ_WT22)	07:41		08:04 (KLZ_WT10)	06:39			06:32		06:55 (KLZ_WT23)	05:43			05:31
	17:22	107	16:30 (KLZ_WT15)	18:18	8	08:12 (KLZ_WT10)	19:05			20:57	32	07:27 (KLZ_WT21)	21:42			22:05
26	08:32		10:37 (KLZ_WT22)	07:39		08:02 (KLZ_WT10)	06:37			06:30		06:53 (KLZ_WT23)	05:42			05:31
	17:24	109	16:32 (KLZ_WT15)	18:20	10	08:12 (KLZ_WT10)	19:07			20:58	34	07:27 (KLZ_WT21)	21:43			22:05
27	08:31		10:36 (KLZ_WT22)	07:36		08:03 (KLZ_WT10)	06:35			06:28		06:51 (KLZ_WT23)	05:41			05:32
	17:26	110	16:32 (KLZ_WT15)	18:21	8	08:11 (KLZ_WT10)	19:09			21:00	36	07:27 (KLZ_WT21)	21:45			22:05
28	08:30		10:37 (KLZ_WT22)	07:34		08:04 (KLZ_WT10)	06:32			06:26		06:50 (SAM_WT06)	05:40			05:32
	17:28	111	16:33 (KLZ_WT15)	18:23	4	08:08 (KLZ_WT10)	19:10			21:01	38	07:28 (KLZ_WT21)	21:46			22:05
29	08:28		10:37 (KLZ_WT22)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33
	17:29	111	16:33 (KLZ_WT15)				20:12			21:03	40	07:28 (KLZ_WT21)	21:47			22:05
30	08:27		08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33
	17:31	113	16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	42	07:28 (KLZ_WT21)	21:48			22:04
31	08:26		08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37			
	17:33	114	16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		3003			1712			312			401			428		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.		0,62			0,65			0,57			0,65			0,65		
Total reduction		0,15			0,19			0,21			0,29			0,29		
Total, real		448			326			66			118			125		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:11 (KLZ_WT21)	06:57		07:23 (SAM_WT07)	07:44		08:09 (CBR_WT01)	07:37		10:14 (KLZ_WT22)	08:26		08:57 (RHR_WT01)
	22:04			21:34	19	07:30 (KLZ_WT21)	20:33	7	07:30 (SAM_WT07)	19:25	26	08:35 (KLZ_WT19)	17:21	96	16:04 (KLZ_WT15)	16:42	93	15:53 (KLZ_WT15)
2	05:35			06:11		07:05 (KLZ_WT23)	06:59		07:24 (SAM_WT07)	07:46		08:11 (CBR_WT01)	07:38		10:13 (KLZ_WT22)	08:27		08:59 (RHR_WT01)
	22:04			21:32	27	07:32 (KLZ_WT21)	20:31	5	07:29 (SAM_WT07)	19:23	24	08:35 (KLZ_WT19)	17:19	100	16:05 (KLZ_WT15)	16:42	87	15:52 (KLZ_WT15)
3	05:35			06:12		07:02 (KLZ_WT23)	07:00		07:26 (SAM_WT07)	07:48		08:12 (KLZ_WT19)	07:40		08:10 (MVN_WT01)	08:29		09:00 (RHR_WT01)
	22:04			21:30	31	07:33 (KLZ_WT21)	20:29	2	07:28 (SAM_WT07)	19:21	22	08:34 (KLZ_WT19)	17:17	104	16:05 (KLZ_WT15)	16:41	74	11:15 (KLZ_WT22)
4	05:36			06:14		07:01 (KLZ_WT23)	07:02			07:49		08:14 (KLZ_WT19)	07:42		08:09 (MVN_WT01)	08:30		09:05 (KLZ_WT08)
	22:03			21:29	32	07:33 (KLZ_WT21)	20:27			19:19	20	08:34 (KLZ_WT19)	17:16	110	16:05 (KLZ_WT15)	16:40	73	11:16 (KLZ_WT22)
5	05:37			06:15		07:00 (KLZ_WT23)	07:03		07:29 (SAM_WT11)	07:51		08:16 (KLZ_WT19)	07:44		08:11 (MVN_WT01)	08:31		09:06 (KLZ_WT08)
	22:03			21:27	34	07:34 (KLZ_WT21)	20:24	3	07:32 (SAM_WT11)	19:16	17	08:33 (KLZ_WT19)	17:14	109	16:05 (KLZ_WT15)	16:40	70	11:15 (KLZ_WT22)
6	05:38			06:17		06:59 (KLZ_WT23)	07:05		07:30 (SAM_WT11)	07:53		08:17 (KLZ_WT19)	07:45		08:13 (MVN_WT01)	08:33		09:06 (KLZ_WT08)
	22:02			21:25	36	07:35 (KLZ_WT21)	20:22	2	07:32 (SAM_WT11)	19:14	14	08:31 (KLZ_WT19)	17:12	109	16:05 (KLZ_WT15)	16:40	70	11:15 (KLZ_WT22)
7	05:38			06:18		06:59 (KLZ_WT23)	07:07		07:32 (SAM_WT11)	07:54		08:19 (KLZ_WT19)	07:47		08:15 (MVN_WT01)	08:34		09:07 (KLZ_WT08)
	22:02			21:24	37	07:36 (KLZ_WT21)	20:20	1	07:33 (SAM_WT11)	19:12	11	08:30 (KLZ_WT19)	17:11	109	16:05 (KLZ_WT15)	16:39	69	11:16 (KLZ_WT22)
8	05:39			06:20		06:58 (KLZ_WT23)	07:08			07:56		08:21 (KLZ_WT19)	07:49		10:10 (KLZ_WT22)	08:35		09:08 (KLZ_WT08)
	22:01			21:22	38	07:36 (KLZ_WT21)	20:18			19:10	7	08:28 (KLZ_WT19)	17:09	110	16:06 (KLZ_WT15)	16:39	67	11:16 (KLZ_WT22)
9	05:40			06:21		06:58 (KLZ_WT23)	07:10			07:58			07:50		08:19 (MXS_WT01)	08:36		09:09 (KLZ_WT08)
	22:00			21:20	38	07:36 (KLZ_WT21)	20:15			19:08			17:07	114	16:06 (KLZ_WT15)	16:39	65	11:16 (KLZ_WT22)
10	05:41			06:23		06:57 (KLZ_WT23)	07:11			07:59			07:52		08:21 (MXS_WT01)	08:37		09:10 (KLZ_WT08)
	22:00			21:18	39	07:36 (KLZ_WT21)	20:13			19:05			17:06	115	16:06 (KLZ_WT15)	16:38	64	11:16 (KLZ_WT22)
11	05:42			06:24		06:57 (KLZ_WT23)	07:13			08:01			07:54		08:23 (MXS_WT01)	08:38		09:10 (KLZ_WT08)
	21:59			21:16	40	07:37 (KLZ_WT21)	20:11			19:03			17:04	114	16:06 (KLZ_WT15)	16:38	63	11:16 (KLZ_WT22)
12	05:43			06:26		06:55 (SAM_WT06)	07:14			08:02			07:56		08:24 (MXS_WT01)	08:39		09:11 (KLZ_WT08)
	21:58			21:14	41	07:36 (KLZ_WT21)	20:09			19:01			17:03	113	16:05 (KLZ_WT15)	16:38	62	11:16 (KLZ_WT22)
13	05:44			06:27		06:54 (SAM_WT06)	07:16		07:41 (SAM_WT04)	08:04			07:57		10:09 (KLZ_WT22)	08:40		09:12 (KLZ_WT08)
	21:57			21:13	42	07:36 (KLZ_WT21)	20:06	1	07:42 (SAM_WT04)	18:59			17:01	111	16:05 (KLZ_WT15)	16:38	60	11:16 (KLZ_WT22)
14	05:45			06:29		06:56 (SAM_WT06)	07:18			08:06		08:36 (KLZ_WT10)	07:59		10:09 (KLZ_WT22)	08:41		09:13 (KLZ_WT08)
	21:56			21:11	40	07:36 (KLZ_WT21)	20:04			18:57	6	08:42 (KLZ_WT10)	17:00	111	16:05 (KLZ_WT15)	16:38	59	11:17 (KLZ_WT22)
15	05:47			06:30		06:57 (SAM_WT06)	07:19			08:07		08:34 (KLZ_WT10)	08:01		10:09 (KLZ_WT22)	08:42		09:15 (KLZ_WT08)
	21:56			21:09	38	07:35 (KLZ_WT21)	20:02			18:55	10	08:44 (KLZ_WT10)	16:59	110	16:05 (KLZ_WT15)	16:38	56	11:17 (KLZ_WT22)
16	05:48			06:32		06:59 (KLZ_WT23)	07:21			08:09		08:35 (KLZ_WT10)	08:02		10:10 (KLZ_WT22)	08:43		09:16 (KLZ_WT08)
	21:55			21:07	36	07:35 (KLZ_WT21)	20:00			18:53	9	08:44 (KLZ_WT10)	16:57	109	16:05 (KLZ_WT15)	16:38	55	11:17 (KLZ_WT22)
17	05:49			06:34		07:00 (KLZ_WT23)	07:22			08:11		08:36 (KLZ_WT10)	08:04		10:10 (KLZ_WT22)	08:44		09:17 (RHR_WT02)
	21:54			21:05	34	07:34 (KLZ_WT21)	19:57			18:50	8	08:44 (KLZ_WT10)	16:56	107	16:04 (KLZ_WT15)	16:39	54	11:18 (KLZ_WT22)
18	05:50			06:35		07:02 (KLZ_WT23)	07:24			08:12		08:38 (KLZ_WT10)	08:06		10:11 (KLZ_WT22)	08:45		09:16 (RHR_WT02)
	21:52			21:03	32	07:34 (KLZ_WT21)	19:55			18:48	6	08:44 (KLZ_WT10)	16:55	105	16:04 (KLZ_WT15)	16:39	55	11:18 (KLZ_WT22)
19	05:51			06:37		07:05 (KLZ_WT21)	07:25			08:14		08:40 (KLZ_WT10)	08:08		09:05 (KLZ_WT08)	08:45		09:17 (RHR_WT02)
	21:51			21:01	27	07:32 (KLZ_WT21)	19:53			18:46	3	08:43 (KLZ_WT10)	16:53	109	16:03 (KLZ_WT15)	16:39	54	11:18 (KLZ_WT22)
20	05:53			06:38		07:06 (KLZ_WT21)	07:27			08:16			08:09		09:04 (KLZ_WT08)	08:46		09:18 (RHR_WT02)
	21:50			20:59	25	07:31 (KLZ_WT21)	19:50			18:44			16:52	111	16:03 (KLZ_WT15)	16:39	54	11:19 (KLZ_WT22)
21	05:54			06:40		07:07 (KLZ_WT21)	07:29			08:18		16:40 (KLZ_WT15)	08:11		09:03 (KLZ_WT08)	08:47		09:18 (RHR_WT02)
	21:49			20:57	22	07:29 (KLZ_WT21)	19:48			18:42	6	16:46 (KLZ_WT15)	16:51	113	16:02 (KLZ_WT15)	16:40	54	11:19 (KLZ_WT22)
22	05:55			06:41		07:09 (KLZ_WT21)	07:30			08:19		16:34 (KLZ_WT15)	08:12		09:02 (KLZ_WT08)	08:47		09:19 (RHR_WT02)
	21:48			20:55	19	07:28 (KLZ_WT21)	19:46			18:40	17	16:51 (KLZ_WT15)	16:50	114	16:02 (KLZ_WT15)	16:40	54	11:20 (KLZ_WT22)
23	05:56			06:43		07:10 (KLZ_WT21)	07:32		07:56 (SAM_WT05)	08:21		16:31 (KLZ_WT15)	08:14		09:01 (KLZ_WT08)	08:48		09:19 (RHR_WT02)
	21:47			20:53	15	07:25 (KLZ_WT21)	19:44	5	08:01 (SAM_WT05)	18:38	23	16:54 (KLZ_WT15)	16:49	112	16:01 (KLZ_WT15)	16:41	54	11:20 (KLZ_WT22)
24	05:58			06:45		07:14 (KLZ_WT21)	07:33		07:58 (SAM_WT05)	08:23		11:32 (KLZ_WT22)	08:16		08:51 (RHR_WT01)	08:48		09:19 (RHR_WT02)
	21:45			20:50	8	07:22 (KLZ_WT21)	19:41	10	08:14 (CBR_WT01)	18:36	41	16:57 (KLZ_WT15)	16:48	112	16:00 (KLZ_WT15)	16:41	54	11:20 (KLZ_WT22)
25	05:59			06:46			07:35		07:59 (SAM_WT05)	07:24		10:27 (KLZ_WT22)	08:17		08:49 (RHR_WT01)	08:48		09:20 (RHR_WT02)
	21:44			20:48			19:39	17	08:27 (KLZ_WT19)	17:34	54	15:58 (KLZ_WT15)	16:47	116	16:00 (KLZ_WT15)	16:42	55	11:22 (KLZ_WT22)
26	06:01			06:48			07:36		08:01 (SAM_WT05)	07:26		10:24 (KLZ_WT22)	08:19		08:49 (RHR_WT01)	08:49		09:20 (RHR_WT02)
	21:43			20:46			19:37	25	08:31 (KLZ_WT19)	17:32	65	16:00 (KLZ_WT15)	16:46	114	15:58 (KLZ_WT15)	16:43	55	11:22 (KLZ_WT22)
27	06:02			06:49		07:23 (SAM_WT07)	07:38		08:03 (CBR_WT01)	07:28		10:21 (KLZ_WT22)	08:20		08:51 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:41			20:44	2	07:25 (SAM_WT07)	19:35	30	08:33 (KLZ_WT19)	17:30	72	16:00 (KLZ_WT15)	16:45	111	15:58 (KLZ_WT15)	16:43	55	11:22 (KLZ_WT22)
28	06:03			06:51		07:20 (SAM_WT07)	07:40		08:04 (CBR_WT01)	07:30		10:19 (KLZ_WT22)	08:22		08:53 (RHR_WT01)	08:49		09:21 (KLZ_WT08)
	21:40			20:42	8	07:28 (SAM_WT07)	19:32	30	08:34 (KLZ_WT19)	17:28	78	16:01 (KLZ_WT15)	16:44	108	15:57 (KLZ_WT15)	16:44	56	11:23 (KLZ_WT22)
29	06:05		07:19 (KLZ_WT21)	06:52		07:18 (SAM_WT07)	07:41		08:06 (CBR_WT01)	07:31		10:17 (KLZ_WT22)	08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	3	07:22 (KLZ_WT21)	20:40	11	07:29 (SAM_WT07)	19:30	29	08:35 (KLZ_WT19)	17:27	84	16:02 (KLZ_WT15)	16:44	104	15:56 (KLZ_WT15)	16:45	57	11:23 (KLZ_WT22)
30	06:06		07:15 (KLZ_WT21)	06:54		07:20 (SAM_WT07)	07:43		08:08 (CBR_WT01)	07:33		10:16 (KLZ_WT22)	08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	11	07:26 (KLZ_WT21)	20:38	10	07:30 (SAM_WT07)	19:28	28	08:36 (KLZ_WT19)	17:25	89	16:03 (KLZ_WT15)	16:43	99	15:55 (KLZ_WT15)	16:46	59	11:24 (KLZ_WT22)
31	06:08		07:13 (KLZ_WT21)	06:56		07:21 (SAM_WT07)				07:35		10:15 (KLZ_WT22)				08:50		09:20 (KLZ_WT08)
	21:35	16	07:29 (KLZ_WT21)	20:35	8	07:29 (SAM_WT07)				17:23	94	16:04 (KLZ_WT15)				16:47	61	11:25 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		30			789			195			806			3279			1918	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,65			0,59			0,64			0,63			0,58	
Total reduction		0,28			0,30			0,25			0,23			0,17			0,13	
Total, real		9			234			48			182			542			246	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20		07:01 (KLZ_WT23)	05:36
	16:48	55	13:52 (KLZ_WT22)	17:35	38	16:59 (KLZ_WT15)	18:25	30	08:39 (KLZ_WT19)	20:17	5	07:51 (SAM_WT11)	21:06	68	08:09 (KLZ_WT21)	21:51
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18		07:01 (KLZ_WT23)	05:36
	16:49	55	13:52 (KLZ_WT22)	17:36	35	16:58 (KLZ_WT15)	18:27	29	08:37 (KLZ_WT19)	20:19	6	07:49 (SAM_WT11)	21:08	67	08:08 (KLZ_WT21)	21:52
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16		07:02 (KLZ_WT23)	05:35
	16:50	55	13:53 (KLZ_WT22)	17:38	32	16:58 (KLZ_WT15)	18:28	20	08:31 (KLZ_WT19)	20:20	6	07:47 (SAM_WT07)	21:10	66	08:08 (KLZ_WT21)	21:53
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15		07:02 (KLZ_WT23)	05:34
	16:51	54	13:52 (KLZ_WT22)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	64	08:06 (KLZ_WT21)	21:54
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13		07:02 (KLZ_WT23)	05:34
	16:53	53	13:53 (KLZ_WT22)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	62	08:05 (KLZ_WT21)	21:55
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11		07:03 (KLZ_WT23)	05:33
	16:54	51	13:52 (KLZ_WT22)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	60	08:05 (KLZ_WT21)	21:56
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09		07:04 (KLZ_WT23)	05:32
	16:55	46	13:53 (KLZ_WT22)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	18	07:54 (KLZ_WT21)	21:16	54	08:03 (KLZ_WT21)	21:56
8	08:48		13:08 (KLZ_WT22)	08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08		07:05 (KLZ_WT23)	05:32
	16:56	45	13:53 (KLZ_WT22)	17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	29	08:01 (KLZ_WT21)	21:17	49	08:01 (KLZ_WT21)	21:57
9	08:48		13:09 (KLZ_WT22)	08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06		07:07 (KLZ_WT23)	05:31
	16:58	44	13:53 (KLZ_WT22)	17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	31	08:04 (KLZ_WT21)	21:19	43	08:00 (KLZ_WT21)	21:58
10	08:47		13:10 (KLZ_WT22)	08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04		07:09 (KLZ_WT23)	05:31
	16:59	43	13:53 (KLZ_WT22)	17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	32	08:06 (KLZ_WT21)	21:21	35	07:58 (KLZ_WT21)	21:59
11	08:46		13:11 (KLZ_WT22)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:36 (KLZ_WT21)	06:03		07:33 (KLZ_WT21)	05:31
	17:00	41	13:52 (KLZ_WT22)	17:53			18:42	8	07:41 (SAM_WT05)	20:34	32	08:08 (KLZ_WT21)	21:22	24	07:57 (KLZ_WT21)	22:00
12	08:46		13:12 (KLZ_WT22)	08:06			07:08		07:31 (SAM_WT05)	06:59		07:33 (KLZ_WT21)	06:01		07:34 (KLZ_WT21)	05:30
	17:02	41	13:53 (KLZ_WT22)	17:55			18:44	8	07:39 (SAM_WT05)	20:35	35	08:08 (KLZ_WT21)	21:24	21	07:55 (KLZ_WT21)	22:00
13	08:45		13:13 (KLZ_WT22)	08:04		08:28 (KLZ_WT19)	07:06			06:57		07:32 (KLZ_WT21)	05:59		07:37 (KLZ_WT21)	05:30
	17:03	40	13:53 (KLZ_WT22)	17:56	8	08:36 (KLZ_WT19)	18:45			20:37	37	08:09 (KLZ_WT21)	21:25	16	07:53 (KLZ_WT21)	22:01
14	08:44		13:14 (KLZ_WT22)	08:02		08:26 (KLZ_WT19)	07:04			06:55		07:30 (KLZ_WT21)	05:58		07:41 (KLZ_WT21)	05:30
	17:05	38	13:52 (KLZ_WT22)	17:58	13	08:39 (KLZ_WT19)	18:47			20:38	40	08:10 (KLZ_WT21)	21:27	7	07:48 (KLZ_WT21)	22:02
15	08:44		13:16 (KLZ_WT22)	08:00		08:24 (KLZ_WT19)	07:02			06:52		07:29 (KLZ_WT21)	05:56			05:30
	17:06	35	13:51 (KLZ_WT22)	18:00	17	08:41 (KLZ_WT19)	18:49			20:40	42	08:11 (KLZ_WT21)	21:28			22:02
16	08:43		13:17 (KLZ_WT22)	07:58		08:22 (KLZ_WT19)	06:59			06:50		07:28 (KLZ_WT21)	05:55			05:30
	17:08	34	13:51 (KLZ_WT22)	18:02	20	08:42 (KLZ_WT19)	18:50			20:42	44	08:12 (KLZ_WT21)	21:30			22:03
17	08:42		13:19 (KLZ_WT22)	07:57		08:21 (KLZ_WT19)	06:57			06:48		07:27 (KLZ_WT21)	05:54			05:30
	17:09	31	13:50 (KLZ_WT22)	18:04	22	08:43 (KLZ_WT19)	18:52			20:43	45	08:12 (KLZ_WT21)	21:31			22:03
18	08:41		13:20 (KLZ_WT22)	07:55		08:20 (KLZ_WT19)	06:55			06:46		07:26 (KLZ_WT21)	05:52			05:29
	17:11	29	13:49 (KLZ_WT22)	18:05	24	08:44 (KLZ_WT19)	18:54			20:45	47	08:13 (KLZ_WT21)	21:33			22:03
19	08:40		13:23 (KLZ_WT22)	07:53		08:19 (KLZ_WT19)	06:53			06:44		07:26 (KLZ_WT21)	05:51			05:30
	17:12	25	13:48 (KLZ_WT22)	18:07	26	08:45 (KLZ_WT19)	18:55			20:47	47	08:13 (KLZ_WT21)	21:34			22:04
20	08:39		13:25 (KLZ_WT22)	07:51		08:18 (KLZ_WT19)	06:50			06:42		07:12 (KLZ_WT23)	05:49			05:30
	17:14	25	16:43 (KLZ_WT15)	18:09	27	08:45 (KLZ_WT19)	18:57			20:48	57	08:13 (KLZ_WT21)	21:35			22:04
21	08:38		09:05 (MVN_WT01)	07:49		08:18 (KLZ_WT19)	06:48			06:40		07:03 (SAM_WT06)	05:48			05:30
	17:16	24	16:44 (KLZ_WT15)	18:11	27	08:45 (KLZ_WT19)	18:59			20:50	65	08:13 (KLZ_WT21)	21:37			22:04
22	08:37		09:04 (MVN_WT01)	07:47		08:18 (KLZ_WT19)	06:46			06:38		07:01 (SAM_WT06)	05:47			05:30
	17:17	14	16:46 (KLZ_WT15)	18:12	27	08:45 (KLZ_WT19)	19:00			20:52	71	08:13 (KLZ_WT21)	21:38			22:05
23	08:36		09:03 (KLZ_WT10)	07:45		08:18 (KLZ_WT19)	06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46			05:30
	17:19	17	16:48 (KLZ_WT15)	18:14	27	08:45 (KLZ_WT19)	19:02	2	07:08 (SAM_WT04)	20:53	74	08:13 (KLZ_WT21)	21:40			22:05
24	08:35		09:02 (KLZ_WT10)	07:43		08:18 (KLZ_WT19)	06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44			05:30
	17:21	22	16:50 (KLZ_WT15)	18:16	27	08:45 (KLZ_WT19)	19:04	3	07:07 (SAM_WT04)	20:55	75	08:12 (KLZ_WT21)	21:41			22:05
25	08:34		09:00 (KLZ_WT10)	07:41		08:19 (KLZ_WT19)	06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43			05:31
	17:22	25	16:51 (KLZ_WT15)	18:18	25	08:44 (KLZ_WT19)	19:05	4	07:05 (SAM_WT04)	20:57	77	08:12 (KLZ_WT21)	21:42			22:05
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31
	17:24	30	16:54 (KLZ_WT15)	18:20	27	08:44 (KLZ_WT19)	19:07			20:58	79	08:12 (KLZ_WT21)	21:43			22:05
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41			05:32
	17:26	34	16:55 (KLZ_WT15)	18:21	30	08:43 (KLZ_WT19)	19:09			21:00	79	08:11 (KLZ_WT21)	21:45			22:05
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40			05:32
	17:28	38	16:57 (KLZ_WT15)	18:23	31	08:41 (KLZ_WT19)	19:10			21:01	77	08:10 (KLZ_WT21)	21:46			22:05
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39			05:33
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	76	08:11 (KLZ_WT21)	21:47			22:05
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22		07:01 (KLZ_WT23)	05:38			05:33
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05	69	08:10 (KLZ_WT21)	21:48			22:04
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37			
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		1162			614			198			1328			636		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.		0,68			0,61			0,56			0,64			0,64		
Total reduction		0,16			0,18			0,21			0,29			0,28		
Total, real		191			110			41			383			181		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:44 (KLZ_WT21)	06:57		07:35 (KLZ_WT21)	07:44		08:11 (SAM_WT05)	07:37		16:11 (KLZ_WT15)	08:26		12:53 (KLZ_WT22)
	22:04			21:34	22	08:06 (KLZ_WT21)	20:33	32	08:07 (KLZ_WT21)	19:25	6	08:17 (SAM_WT05)	17:21	11	16:22 (KLZ_WT15)	16:42	41	13:34 (KLZ_WT22)
2	05:34			06:11		07:23 (KLZ_WT23)	06:59		07:32 (SAM_WT07)	07:46		08:11 (SAM_WT05)	07:38		16:09 (KLZ_WT15)	08:27		12:53 (KLZ_WT22)
	22:04			21:32	27	08:08 (KLZ_WT21)	20:31	32	08:04 (KLZ_WT21)	19:23	8	08:19 (SAM_WT05)	17:19	15	16:24 (KLZ_WT15)	16:41	43	13:36 (KLZ_WT22)
3	05:35			06:12		07:18 (KLZ_WT23)	07:00		07:31 (SAM_WT07)	07:48		08:12 (SAM_WT05)	07:40		16:08 (KLZ_WT15)	08:29		12:52 (KLZ_WT22)
	22:04			21:30	40	08:10 (KLZ_WT21)	20:29	31	08:02 (KLZ_WT21)	19:21	7	08:19 (SAM_WT05)	17:17	18	16:26 (KLZ_WT15)	16:41	44	13:36 (KLZ_WT22)
4	05:36			06:14		07:16 (KLZ_WT23)	07:02		07:29 (SAM_WT07)	07:49		08:14 (SAM_WT05)	07:42		16:05 (KLZ_WT15)	08:30		12:53 (KLZ_WT22)
	22:03			21:29	45	08:10 (KLZ_WT21)	20:27	29	07:58 (KLZ_WT21)	19:19	6	08:20 (SAM_WT05)	17:16	21	16:26 (KLZ_WT15)	16:40	45	13:38 (KLZ_WT22)
5	05:37			06:15		07:15 (KLZ_WT23)	07:03		07:29 (SAM_WT07)	07:51		08:16 (SAM_WT05)	07:44		16:05 (KLZ_WT15)	08:31		12:53 (KLZ_WT22)
	22:03			21:27	51	08:12 (KLZ_WT21)	20:24	19	07:52 (KLZ_WT21)	19:16	11	08:39 (CBR_WT01)	17:14	22	16:27 (KLZ_WT15)	16:40	45	13:38 (KLZ_WT22)
6	05:38			06:17		07:13 (KLZ_WT23)	07:05		07:30 (SAM_WT07)	07:53		08:17 (SAM_WT05)	07:45		16:04 (KLZ_WT15)	08:33		09:06 (MXS_WT01)
	22:02			21:25	56	08:13 (KLZ_WT21)	20:22	13	07:43 (SAM_WT07)	19:14	13	08:41 (CBR_WT01)	17:12	24	16:28 (KLZ_WT15)	16:39	52	13:39 (KLZ_WT22)
7	05:38			06:18		07:13 (KLZ_WT23)	07:07		07:32 (SAM_WT07)	07:54		08:28 (CBR_WT01)	07:47		16:04 (KLZ_WT15)	08:34		09:07 (MXS_WT01)
	22:02			21:24	59	08:14 (KLZ_WT21)	20:20	11	07:43 (SAM_WT07)	19:12	14	08:42 (CBR_WT01)	17:11	24	16:28 (KLZ_WT15)	16:39	53	13:40 (KLZ_WT22)
8	05:39			06:20		07:11 (KLZ_WT23)	07:08		07:33 (SAM_WT07)	07:56		08:27 (CBR_WT01)	07:49		08:29 (KLZ_WT10)	08:35		09:07 (MXS_WT01)
	22:01			21:22	64	08:15 (KLZ_WT21)	20:18	9	07:42 (SAM_WT07)	19:10	16	08:43 (CBR_WT01)	17:09	33	16:29 (KLZ_WT15)	16:39	54	13:40 (KLZ_WT22)
9	05:40			06:21		07:11 (KLZ_WT23)	07:10		07:35 (SAM_WT07)	07:57		08:25 (CBR_WT01)	07:50		08:28 (KLZ_WT10)	08:36		09:08 (MXS_WT01)
	22:00			21:20	65	08:16 (KLZ_WT21)	20:15	7	07:42 (SAM_WT07)	19:08	18	08:43 (CBR_WT01)	17:07	36	16:29 (KLZ_WT15)	16:39	55	13:41 (KLZ_WT22)
10	05:41			06:23		07:10 (KLZ_WT23)	07:11		07:36 (SAM_WT07)	07:59		08:25 (CBR_WT01)	07:52		08:28 (KLZ_WT10)	08:37		09:09 (MXS_WT01)
	22:00			21:18	66	08:16 (KLZ_WT21)	20:13	6	07:42 (SAM_WT11)	19:05	18	08:43 (CBR_WT01)	17:06	38	16:30 (KLZ_WT15)	16:38	55	13:41 (KLZ_WT22)
11	05:42			06:24		07:09 (KLZ_WT23)	07:13		07:38 (SAM_WT11)	08:01		08:26 (CBR_WT01)	07:54		08:27 (KLZ_WT10)	08:38		09:10 (MXS_WT01)
	21:59			21:16	68	08:17 (KLZ_WT21)	20:11	6	07:44 (SAM_WT11)	19:03	26	09:09 (KLZ_WT19)	17:04	40	16:30 (KLZ_WT15)	16:38	55	13:42 (KLZ_WT22)
12	05:43			06:26		07:09 (KLZ_WT23)	07:14		07:39 (SAM_WT11)	08:02		08:28 (CBR_WT01)	07:56		08:26 (KLZ_WT10)	08:39		09:11 (MXS_WT01)
	21:58			21:14	69	08:18 (KLZ_WT21)	20:09	5	07:44 (SAM_WT11)	19:01	29	09:12 (KLZ_WT19)	17:03	40	16:29 (KLZ_WT15)	16:38	55	13:42 (KLZ_WT22)
13	05:44			06:27		07:09 (KLZ_WT23)	07:16		07:41 (SAM_WT11)	08:04		08:29 (CBR_WT01)	07:57		08:27 (KLZ_WT10)	08:40		09:12 (MXS_WT01)
	21:57			21:13	68	08:17 (KLZ_WT21)	20:06	3	07:44 (SAM_WT11)	18:59	31	09:13 (KLZ_WT19)	17:01	39	16:29 (KLZ_WT15)	16:38	55	13:43 (KLZ_WT22)
14	05:45			06:29		07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06		08:31 (CBR_WT01)	07:59		08:28 (KLZ_WT10)	08:41		09:13 (MXS_WT01)
	21:56			21:11	76	08:18 (KLZ_WT21)	20:04	1	07:43 (SAM_WT11)	18:57	30	09:14 (KLZ_WT19)	17:00	38	16:29 (KLZ_WT15)	16:38	55	13:44 (KLZ_WT22)
15	05:46			06:30		07:00 (SAM_WT06)	07:19			08:07		08:33 (CBR_WT01)	08:01		08:30 (KLZ_WT10)	08:42		09:14 (MXS_WT01)
	21:56			21:09	78	08:18 (KLZ_WT21)	20:02			18:55	28	09:15 (KLZ_WT19)	16:59	34	16:28 (KLZ_WT15)	16:38	54	13:44 (KLZ_WT22)
16	05:48			06:32		07:00 (SAM_WT06)	07:21			08:09		08:51 (KLZ_WT19)	08:02		08:32 (KLZ_WT10)	08:43		09:15 (MXS_WT01)
	21:55			21:07	79	08:19 (KLZ_WT21)	20:00			18:53	25	09:16 (KLZ_WT19)	16:57	30	16:27 (KLZ_WT15)	16:38	55	13:45 (KLZ_WT22)
17	05:49			06:34		07:00 (SAM_WT06)	07:22			08:11		08:50 (KLZ_WT19)	08:04		08:34 (KLZ_WT10)	08:44		09:16 (MXS_WT01)
	21:54			21:05	78	08:18 (KLZ_WT21)	19:57			18:50	26	09:16 (KLZ_WT19)	16:56	25	16:25 (KLZ_WT15)	16:38	54	13:46 (KLZ_WT22)
18	05:50			06:35		07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12		08:49 (KLZ_WT19)	08:06		08:36 (KLZ_WT10)	08:45		09:16 (MXS_WT01)
	21:52			21:03	77	08:19 (KLZ_WT21)	19:55	4	07:53 (SAM_WT04)	18:48	27	09:16 (KLZ_WT19)	16:55	22	16:24 (KLZ_WT15)	16:39	55	13:46 (KLZ_WT22)
19	05:51			06:37		07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14		08:49 (KLZ_WT19)	08:07		08:37 (KLZ_WT10)	08:45		09:17 (MXS_WT01)
	21:51			21:01	75	08:18 (KLZ_WT21)	19:53	4	07:54 (SAM_WT04)	18:46	28	09:17 (KLZ_WT19)	16:53	17	16:22 (KLZ_WT15)	16:39	54	13:46 (KLZ_WT22)
20	05:53			06:38		07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16		08:49 (KLZ_WT19)	08:09		08:39 (MVN_WT01)	08:46		09:18 (MXS_WT01)
	21:50			20:59	73	08:18 (KLZ_WT21)	19:50	3	07:55 (SAM_WT04)	18:44	28	09:17 (KLZ_WT19)	16:52	14	16:21 (KLZ_WT15)	16:39	54	13:47 (KLZ_WT22)
21	05:54			06:40		07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18		08:49 (KLZ_WT19)	08:11		08:41 (MVN_WT01)	08:47		09:18 (MXS_WT01)
	21:49			20:57	71	08:18 (KLZ_WT21)	19:48	1	07:54 (SAM_WT04)	18:42	27	09:16 (KLZ_WT19)	16:51	24	16:20 (KLZ_WT15)	16:40	54	13:47 (KLZ_WT22)
22	05:55			06:41		07:08 (SAM_WT06)	07:30			08:19		08:49 (KLZ_WT19)	08:12		13:01 (KLZ_WT22)	08:47		09:19 (MXS_WT01)
	21:48			20:55	65	08:18 (KLZ_WT21)	19:46			18:40	26	09:15 (KLZ_WT19)	16:50	25	16:19 (KLZ_WT15)	16:40	54	13:48 (KLZ_WT22)
23	05:56			06:43		07:16 (KLZ_WT23)	07:32			08:21		08:50 (KLZ_WT19)	08:14		12:59 (KLZ_WT22)	08:48		09:19 (MXS_WT01)
	21:47			20:53	57	08:17 (KLZ_WT21)	19:44			18:38	25	09:15 (KLZ_WT19)	16:49	25	13:24 (KLZ_WT22)	16:41	54	13:48 (KLZ_WT22)
24	05:58			06:45		07:30 (KLZ_WT21)	07:33			08:23		08:50 (KLZ_WT19)	08:16		12:58 (KLZ_WT22)	08:48		09:19 (MXS_WT01)
	21:45			20:50	47	08:17 (KLZ_WT21)	19:41			18:36	24	09:14 (KLZ_WT19)	16:48	28	13:26 (KLZ_WT22)	16:41	54	13:48 (KLZ_WT22)
25	05:59			06:46		07:29 (KLZ_WT21)	07:35			07:24		07:51 (KLZ_WT19)	08:17		12:57 (KLZ_WT22)	08:48		09:20 (MXS_WT01)
	21:44			20:48	46	08:15 (KLZ_WT21)	19:39			17:34	23	08:14 (KLZ_WT19)	16:47	31	13:28 (KLZ_WT22)	16:42	54	13:49 (KLZ_WT22)
26	06:00			06:48		07:30 (KLZ_WT21)	07:36			07:26		07:53 (KLZ_WT19)	08:19		12:55 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:43			20:46	45	08:15 (KLZ_WT21)	19:37			17:32	19	08:12 (KLZ_WT19)	16:46	34	13:29 (KLZ_WT22)	16:43	54	13:50 (KLZ_WT22)
27	06:02			06:49		07:30 (KLZ_WT21)	07:38			07:28		07:54 (KLZ_WT19)	08:20		12:55 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:41			20:44	44	08:14 (KLZ_WT21)	19:34			17:30	16	08:10 (KLZ_WT19)	16:45	35	13:30 (KLZ_WT22)	16:43	55	13:50 (KLZ_WT22)
28	06:03			06:51		07:31 (KLZ_WT21)	07:40			07:30		07:56 (KLZ_WT19)	08:22		12:54 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:40			20:42	42	08:13 (KLZ_WT21)	19:32			17:28	12	08:08 (KLZ_WT19)	16:44	38	13:32 (KLZ_WT22)	16:44	55	13:50 (KLZ_WT22)
29	06:05			06:52		07:31 (KLZ_WT21)	07:41			07:31		07:59 (KLZ_WT19)	08:23		12:53 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:38			20:40	40	08:11 (KLZ_WT21)	19:30			17:27	5	08:04 (KLZ_WT19)	16:44	40	13:33 (KLZ_WT22)	16:45	54	13:50 (KLZ_WT22)
30	06:06		07:49 (KLZ_WT21)	06:54		07:33 (KLZ_WT21)	07:43			07:33			08:25		12:54 (KLZ_WT22)	08:50		09:20 (MXS_WT01)
	21:37	11	08:00 (KLZ_WT21)	20:38	37	08:10 (KLZ_WT21)	19:28			17:25			16:43	40	13:34 (KLZ_WT22)	16:46	54	13:51 (KLZ_WT22)
31	06:08		07:47 (KLZ_WT21)	06:56		07:33 (KLZ_WT21)				07:35						08:50		09:20 (MXS_WT01)
	21:35	17	08:04 (KLZ_WT21)	20:35	35	08:08 (KLZ_WT21)				17:23						16:47	55	13:51 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		28			1765			216			572			861			1630	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,64			0,63			0,56			0,68			0,68	
Total reduction		0,28			0,29			0,27			0,20			0,18			0,15	
Total, real		8			514			58			113			153			243	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		08:50 (SAM_WT04)	07:32		07:55 (KLZ_WT17)	07:23		07:45 (KLZ_WT01)	06:20			05:36		06:17 (TEN_WT01)
	16:48	114	15:57 (KLZ_WT13)	17:35	15	16:50 (EVE_WT02)	18:25	34	17:42 (EVE_WT01)	20:17	6	07:51 (KLZ_WT01)	21:06			21:51	16	06:33 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		07:53 (KLZ_WT17)	07:21		07:46 (KLZ_WT01)	06:18			05:36		06:19 (TEN_WT01)
	16:49	112	15:57 (KLZ_WT13)	17:36	12	16:48 (EVE_WT02)	18:26	36	17:41 (EVE_WT01)	20:19	2	07:48 (KLZ_WT01)	21:08			21:52	14	06:33 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		07:51 (KLZ_WT17)	07:19			06:16			05:35		06:19 (TEN_WT01)
	16:50	112	15:58 (KLZ_WT13)	17:38	7	09:09 (KLZ_WT05)	18:28	35	17:39 (EVE_WT01)	20:20			21:10			21:53	14	06:33 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT11)	07:26		07:49 (KLZ_WT17)	07:17			06:15			05:34		06:19 (TEN_WT01)
	16:51	110	15:57 (KLZ_WT13)	17:40	16	09:14 (KLZ_WT05)	18:30	32	17:36 (EVE_WT01)	20:22			21:11			21:54	13	06:32 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT11)	07:24		07:46 (SAM_WT08)	07:14			06:13			05:33		06:20 (TEN_WT01)
	16:52	109	15:58 (KLZ_WT13)	17:42	21	09:16 (KLZ_WT05)	18:32	26	08:12 (KLZ_WT04)	20:24			21:13			21:55	12	06:32 (TEN_WT01)
6	08:49		09:19 (SAM_WT05)	08:16		08:41 (SAM_WT11)	07:21		07:44 (SAM_WT08)	07:12			06:11			05:33		06:21 (TEN_WT01)
	16:54	107	15:57 (KLZ_WT13)	17:44	25	09:17 (KLZ_WT05)	18:33	28	08:12 (KLZ_WT04)	20:25			21:14			21:56	10	06:31 (TEN_WT01)
7	08:48		09:21 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		07:42 (KLZ_WT17)	07:10			06:09			05:32		06:22 (TEN_WT01)
	16:55	102	15:58 (KLZ_WT13)	17:45	29	09:18 (KLZ_WT05)	18:35	30	08:12 (KLZ_WT04)	20:27			21:16			21:57	9	06:31 (TEN_WT01)
8	08:48		09:36 (KLZ_WT23)	08:13		08:57 (KLZ_WT05)	07:17		07:40 (KLZ_WT17)	07:08			06:08			05:32		06:23 (TEN_WT01)
	16:56	94	15:57 (KLZ_WT13)	17:47	23	09:20 (KLZ_WT05)	18:37	32	08:12 (KLZ_WT04)	20:29			21:17			21:57	6	06:29 (TEN_WT01)
9	08:48		09:37 (KLZ_WT23)	08:11		08:56 (KLZ_WT05)	07:15		07:39 (KLZ_WT17)	07:05			06:06			05:31		06:24 (TEN_WT01)
	16:58	90	15:57 (KLZ_WT13)	17:49	25	09:21 (KLZ_WT05)	18:39	33	08:12 (KLZ_WT17)	20:30			21:19			21:58	5	06:29 (TEN_WT01)
10	08:47		09:37 (KLZ_WT23)	08:09		08:55 (KLZ_WT05)	07:13		07:38 (KLZ_WT17)	07:03			06:04			05:31		
	16:59	85	15:56 (KLZ_WT13)	17:51	26	09:21 (KLZ_WT05)	18:40	32	08:10 (KLZ_WT17)	20:32			21:21			21:59		
11	08:47		09:37 (KLZ_WT23)	08:08		08:55 (KLZ_WT05)	07:10		07:38 (KLZ_WT17)	07:01			06:03		06:28 (EAM_WT02)	05:31		
	17:00	75	15:55 (KLZ_WT13)	17:53	27	09:22 (KLZ_WT05)	18:42	32	08:10 (KLZ_WT17)	20:34			21:22	1	06:29 (EAM_WT02)	22:00		
12	08:46		09:38 (KLZ_WT23)	08:06		08:54 (KLZ_WT05)	07:08		07:39 (KLZ_WT17)	06:59			06:01			05:30		
	17:02	65	15:56 (KLZ_WT12)	17:54	28	09:22 (KLZ_WT05)	18:44	31	08:10 (KLZ_WT17)	20:35			21:24			22:00		
13	08:45		09:39 (KLZ_WT23)	08:04		08:54 (KLZ_WT05)	07:06		07:39 (KLZ_WT17)	06:57			05:59		06:25 (EAM_WT01)	05:30		
	17:03	65	15:56 (KLZ_WT12)	17:56	28	09:22 (KLZ_WT05)	18:45	30	08:09 (KLZ_WT17)	20:37			21:25	2	06:27 (EAM_WT01)	22:01		
14	08:45		09:39 (KLZ_WT23)	08:02		08:26 (SAM_WT06)	07:04		07:39 (KLZ_WT17)	06:55			05:58		06:23 (EAM_WT01)	05:30		
	17:05	64	15:56 (KLZ_WT12)	17:58	30	09:22 (KLZ_WT05)	18:47	28	08:07 (KLZ_WT17)	20:38			21:27	4	06:27 (TEN_WT01)	22:02		
15	08:44		09:39 (KLZ_WT23)	08:00		08:24 (SAM_WT06)	07:02		07:40 (KLZ_WT17)	06:52			05:56		06:22 (EAM_WT01)	05:30		
	17:06	63	15:56 (KLZ_WT12)	18:00	34	09:22 (KLZ_WT05)	18:49	26	08:06 (KLZ_WT17)	20:40			21:28	7	06:29 (TEN_WT01)	22:02		
16	08:43		09:40 (KLZ_WT23)	07:58		08:22 (SAM_WT06)	06:59		07:41 (KLZ_WT17)	06:50			05:55		06:21 (EAM_WT01)	05:29		
	17:08	64	16:35 (EVE_WT02)	18:02	43	17:34 (EVE_WT01)	18:50	23	08:04 (KLZ_WT17)	20:42			21:30	10	06:31 (TEN_WT01)	22:03		
17	08:42		09:10 (SAM_WT07)	07:57		08:20 (SAM_WT06)	06:57		07:42 (KLZ_WT17)	06:48			05:53		06:19 (TEN_WT01)	05:29		
	17:09	67	16:37 (EVE_WT02)	18:03	48	17:36 (EVE_WT01)	18:52	19	08:01 (KLZ_WT17)	20:43			21:31	12	06:31 (TEN_WT01)	22:03		
18	08:41		09:09 (SAM_WT07)	07:55		08:18 (SAM_WT06)	06:55		07:44 (KLZ_WT17)	06:46			05:52		06:18 (TEN_WT01)	05:29		
	17:11	70	16:39 (EVE_WT02)	18:05	54	17:38 (EVE_WT01)	18:54	15	07:59 (KLZ_WT17)	20:45			21:33	14	06:32 (TEN_WT01)	22:04		
19	08:40		09:08 (SAM_WT07)	07:53		08:16 (SAM_WT06)	06:53		07:49 (KLZ_WT17)	06:44			05:51		06:17 (TEN_WT01)	05:29		
	17:12	72	16:41 (EVE_WT02)	18:07	57	17:40 (EVE_WT01)	18:55	5	07:54 (KLZ_WT17)	20:47			21:34	16	06:33 (TEN_WT01)	22:04		
20	08:39		09:07 (SAM_WT07)	07:51		08:15 (SAM_WT06)	06:50			06:42			05:49		06:16 (TEN_WT01)	05:30		
	17:14	74	16:43 (EVE_WT02)	18:09	57	17:42 (EVE_WT01)	18:57			20:48			21:35	18	06:34 (TEN_WT01)	22:04		
21	08:38		09:05 (SAM_WT07)	07:49		08:16 (SAM_WT06)	06:48			06:40			05:48		06:15 (TEN_WT01)	05:30		
	17:16	74	16:44 (EVE_WT02)	18:11	56	17:44 (EVE_WT01)	18:59			20:50			21:37	18	06:33 (TEN_WT01)	22:04		
22	08:37		09:04 (SAM_WT07)	07:47		08:16 (SAM_WT06)	06:46			06:38		07:01 (SAM_WT10)	05:47		06:15 (TEN_WT01)	05:30		
	17:17	75	16:46 (EVE_WT02)	18:12	52	17:46 (EVE_WT01)	19:00			20:52	2	07:03 (SAM_WT10)	21:38	19	06:34 (TEN_WT01)	22:05		
23	08:36		09:03 (SAM_WT07)	07:45		08:18 (SAM_WT06)	06:44			06:36		06:59 (SAM_WT10)	05:46		06:15 (TEN_WT01)	05:30		
	17:19	74	16:48 (EVE_WT02)	18:14	41	17:46 (EVE_WT01)	19:02			20:53	3	07:02 (SAM_WT10)	21:40	19	06:34 (TEN_WT01)	22:05		
24	08:35		09:02 (SAM_WT07)	07:43		08:20 (SAM_WT06)	06:41		07:04 (KLZ_WT02)	06:34		06:57 (SAM_WT10)	05:44		06:15 (TEN_WT01)	05:30		
	17:21	71	16:50 (EVE_WT02)	18:16	32	17:46 (EVE_WT01)	19:04	1	07:05 (KLZ_WT02)	20:55	5	07:02 (SAM_WT10)	21:41	19	06:34 (TEN_WT01)	22:05		
25	08:34		09:01 (SAM_WT07)	07:41		17:20 (EVE_WT01)	06:39		07:01 (KLZ_WT02)	06:32		06:55 (SAM_WT10)	05:43		06:15 (TEN_WT01)	05:31		
	17:22	68	16:51 (EVE_WT02)	18:18	26	17:46 (EVE_WT01)	19:05	4	07:05 (KLZ_WT02)	20:57	6	07:01 (SAM_WT10)	21:42	19	06:34 (TEN_WT01)	22:05		
26	08:32		09:01 (SAM_WT07)	07:38		17:20 (EVE_WT01)	06:37		06:59 (KLZ_WT02)	06:30		06:53 (SAM_WT10)	05:42		06:15 (TEN_WT01)	05:31		
	17:24	55	16:53 (EVE_WT02)	18:19	26	17:46 (EVE_WT01)	19:07	6	07:05 (KLZ_WT02)	20:58	6	06:59 (SAM_WT10)	21:43	19	06:34 (TEN_WT01)	22:05		
27	08:31		09:02 (SAM_WT07)	07:36		08:00 (KLZ_WT17)	06:35		06:57 (KLZ_WT02)	06:28		06:52 (SAM_WT10)	05:41		06:15 (TEN_WT01)	05:32		
	17:26	47	16:52 (EVE_WT02)	18:21	27	17:45 (EVE_WT01)	19:09	8	07:05 (KLZ_WT02)	21:00	5	06:57 (SAM_WT10)	21:45	19	06:34 (TEN_WT01)	22:05		
28	08:30		09:03 (SAM_WT07)	07:34		07:57 (KLZ_WT17)	06:32		06:54 (KLZ_WT02)	06:26			05:40		06:15 (TEN_WT01)	05:32		
	17:28	38	16:53 (EVE_WT02)	18:23	30	17:43 (EVE_WT01)	19:10	10	07:04 (KLZ_WT02)	21:01			21:46	19	06:34 (TEN_WT01)	22:05		
29	08:28		09:03 (SAM_WT07)				07:30		07:52 (KLZ_WT01)	06:24			05:39		06:17 (TEN_WT01)	05:33		
	17:29	31	16:52 (EVE_WT02)				20:12	9	08:03 (KLZ_WT02)	21:03			21:47	17	06:34 (TEN_WT01)	22:05		
30	08:27		09:06 (SAM_WT07)				07:28		07:50 (KLZ_WT01)	06:22			05:38		06:17 (TEN_WT01)	05:33		
	17:31	25	16:52 (EVE_WT02)				20:14	5	08:00 (KLZ_WT02)	21:05			21:48	17	06:34 (TEN_WT01)	22:05		
31	08:26		08:51 (SAM_WT04)				07:25		07:48 (KLZ_WT01)				05:37		06:17 (TEN_WT01)			
	17:33	18	16:51 (EVE_WT02)				20:15	5	07:53 (KLZ_WT01)				21:49	17	06:34 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2290			895			575			35			286			99	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,66			0,59			0,57			0,65			0,70			0,70	
Total reduction		0,16			0,17			0,21			0,29			0,31			0,30	
Total, real		365			156			121			10			89			30	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09			06:57			07:44		08:18 (KLZ_WT17)	07:37		08:25 (KLZ_WT05)	08:26		09:19 (KLZ_WT23)
	22:04			21:34			20:33			19:25	30	08:48 (KLZ_WT17)	17:21	26	08:51 (KLZ_WT05)	16:42	74	15:37 (KLZ_WT13)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT17)	07:38		08:26 (KLZ_WT05)	08:27		09:20 (KLZ_WT23)
	22:04			21:32			20:31			19:23	32	08:49 (KLZ_WT17)	17:19	24	08:50 (KLZ_WT05)	16:41	82	15:39 (KLZ_WT13)
3	05:35		06:30 (TEN_WT01)	06:12			07:00			07:48		08:16 (KLZ_WT17)	07:40		08:12 (SAM_WT11)	08:29		09:20 (KLZ_WT23)
	22:04	3	06:33 (TEN_WT01)	21:30			20:29			19:21	32	08:48 (KLZ_WT17)	17:17	26	08:50 (KLZ_WT05)	16:41	90	15:40 (KLZ_WT13)
4	05:36		06:29 (TEN_WT01)	06:13			07:02			07:49		08:16 (KLZ_WT17)	07:42		08:09 (SAM_WT11)	08:30		09:21 (KLZ_WT23)
	22:03	6	06:35 (TEN_WT01)	21:29			20:27			19:19	32	08:48 (KLZ_WT17)	17:16	29	08:48 (KLZ_WT05)	16:40	94	15:42 (KLZ_WT13)
5	05:37		06:28 (TEN_WT01)	06:15			07:03			07:51		08:16 (KLZ_WT17)	07:44		08:11 (SAM_WT11)	08:31		09:06 (SAM_WT05)
	22:03	8	06:36 (TEN_WT01)	21:27			20:24			19:16	32	08:48 (KLZ_WT04)	17:14	25	08:47 (KLZ_WT05)	16:40	102	15:43 (KLZ_WT13)
6	05:37		06:27 (TEN_WT01)	06:16			07:05			07:53		08:17 (KLZ_WT17)	07:45		08:13 (SAM_WT11)	08:33		09:05 (SAM_WT05)
	22:02	10	06:37 (TEN_WT01)	21:25			20:22			19:14	31	08:48 (KLZ_WT04)	17:12	21	08:46 (KLZ_WT05)	16:39	106	15:43 (KLZ_WT13)
7	05:38		06:27 (TEN_WT01)	06:18			07:07			07:54		08:19 (SAM_WT08)	07:47		08:15 (SAM_WT11)	08:34		09:06 (SAM_WT05)
	22:02	11	06:38 (TEN_WT01)	21:24			20:20			19:12	29	08:48 (KLZ_WT04)	17:11	16	08:44 (KLZ_WT05)	16:39	109	15:45 (KLZ_WT13)
8	05:39		06:27 (TEN_WT01)	06:20			07:08			07:56		08:21 (SAM_WT08)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	12	06:39 (TEN_WT01)	21:22			20:18			19:10	27	08:48 (KLZ_WT04)	17:09	5	08:22 (SAM_WT04)	16:39	110	15:45 (KLZ_WT13)
9	05:40		06:26 (TEN_WT01)	06:21			07:10			07:57		08:22 (KLZ_WT17)	07:51		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:20			20:15			19:08	25	08:47 (KLZ_WT04)	17:07	13	16:19 (EVE_WT02)	16:38	111	15:46 (KLZ_WT13)
10	05:41		06:26 (TEN_WT01)	06:23			07:11			07:59		08:24 (KLZ_WT17)	07:52		08:21 (SAM_WT04)	08:37		09:09 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:18			20:13			19:05	33	18:12 (EVE_WT01)	17:06	15	16:21 (EVE_WT02)	16:38	112	15:46 (KLZ_WT13)
11	05:42		06:26 (TEN_WT01)	06:24			07:13		07:38 (KLZ_WT01)	08:01		08:26 (KLZ_WT17)	07:54		08:23 (SAM_WT04)	08:38		09:10 (SAM_WT05)
	21:59	15	06:41 (TEN_WT01)	21:16			20:11	6	07:44 (KLZ_WT01)	19:03	36	18:14 (EVE_WT01)	17:04	20	16:23 (EVE_WT02)	16:38	114	15:47 (KLZ_WT13)
12	05:43		06:26 (TEN_WT01)	06:26			07:14		07:39 (KLZ_WT01)	08:02		08:28 (KLZ_WT17)	07:56		08:36 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	16	06:42 (TEN_WT01)	21:14			20:09	5	07:44 (KLZ_WT01)	19:01	35	18:16 (EVE_WT01)	17:03	26	16:23 (EVE_WT02)	16:38	113	15:48 (KLZ_WT13)
13	05:44		06:25 (TEN_WT01)	06:27			07:16		07:41 (KLZ_WT01)	08:04		08:29 (KLZ_WT17)	07:57		08:35 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	17	06:42 (TEN_WT01)	21:13			20:06	3	07:44 (KLZ_WT01)	18:59	34	18:16 (EVE_WT01)	17:01	31	16:24 (EVE_WT02)	16:38	114	15:48 (KLZ_WT13)
14	05:45		06:25 (TEN_WT01)	06:29			07:17		07:42 (KLZ_WT01)	08:06		08:31 (KLZ_WT17)	07:59		08:35 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:57	18	06:43 (TEN_WT01)	21:11			20:04	8	07:53 (KLZ_WT02)	18:57	30	18:17 (EVE_WT01)	17:00	37	16:24 (EVE_WT02)	16:38	114	15:49 (KLZ_WT13)
15	05:46		06:25 (TEN_WT01)	06:30			07:19		07:45 (KLZ_WT02)	08:07		17:53 (EVE_WT01)	08:01		08:34 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56	18	06:43 (TEN_WT01)	21:09			20:02	9	07:54 (KLZ_WT02)	18:55	25	18:18 (EVE_WT01)	16:59	48	16:25 (EVE_WT02)	16:38	114	15:50 (KLZ_WT13)
16	05:48		06:25 (TEN_WT01)	06:32		06:59 (SAM_WT10)	07:21		07:45 (KLZ_WT02)	08:09		17:52 (EVE_WT01)	08:03		08:34 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55	18	06:43 (TEN_WT01)	21:07	6	07:05 (SAM_WT10)	20:00	9	07:54 (KLZ_WT02)	18:52	26	18:18 (EVE_WT01)	16:57	55	16:26 (EVE_WT02)	16:38	115	15:50 (KLZ_WT13)
17	05:49		06:25 (TEN_WT01)	06:34		07:00 (SAM_WT10)	07:22		07:47 (KLZ_WT02)	08:11		17:51 (EVE_WT01)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54	19	06:44 (TEN_WT01)	21:05	6	07:06 (SAM_WT10)	19:57	7	07:54 (KLZ_WT02)	18:50	26	18:17 (EVE_WT01)	16:56	69	16:25 (EVE_WT02)	16:38	116	15:51 (KLZ_WT13)
18	05:50		06:24 (TEN_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:49 (KLZ_WT02)	08:12		08:50 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53	20	06:44 (TEN_WT01)	21:03	5	07:07 (SAM_WT10)	19:55	5	07:54 (KLZ_WT02)	18:48	35	18:17 (EVE_WT01)	16:55	71	16:24 (EVE_WT02)	16:39	119	15:51 (KLZ_WT13)
19	05:51		06:24 (TEN_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (KLZ_WT02)	08:14		08:49 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	20	06:44 (TEN_WT01)	21:01	4	07:07 (SAM_WT10)	19:53	2	07:52 (KLZ_WT02)	18:46	45	18:17 (EVE_WT01)	16:53	74	16:22 (EVE_WT02)	16:39	121	15:52 (KLZ_WT13)
20	05:52		06:24 (TEN_WT01)	06:38		07:05 (SAM_WT10)	07:27			08:16		08:48 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	20	06:44 (TEN_WT01)	20:59	3	07:08 (SAM_WT10)	19:50			18:44	52	18:16 (EVE_WT01)	16:52	75	16:21 (EVE_WT02)	16:39	122	15:53 (KLZ_WT13)
21	05:54		06:25 (TEN_WT01)	06:40		07:06 (SAM_WT10)	07:28			08:18		08:46 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	19	06:44 (TEN_WT01)	20:57	1	07:07 (SAM_WT10)	19:48			18:42	57	18:14 (EVE_WT01)	16:51	75	16:20 (EVE_WT02)	16:40	122	15:53 (KLZ_WT13)
22	05:55		06:25 (TEN_WT01)	06:41			07:30			08:19		08:46 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	19	06:44 (TEN_WT01)	20:55			19:46			18:40	57	18:12 (EVE_WT01)	16:50	74	16:19 (EVE_WT02)	16:40	121	15:53 (KLZ_WT13)
23	05:56		06:25 (TEN_WT01)	06:43			07:32			08:21		08:47 (SAM_WT06)	08:14		08:44 (SAM_WT07)	08:48		09:19 (SAM_WT05)
	21:47	19	06:44 (TEN_WT01)	20:53			19:44			18:38	56	18:10 (EVE_WT01)	16:49	72	16:17 (EVE_WT02)	16:41	122	15:54 (KLZ_WT13)
24	05:58		06:26 (TEN_WT01)	06:44			07:33			08:23		08:49 (SAM_WT06)	08:16		08:46 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:45	17	06:43 (TEN_WT01)	20:50			19:41			18:36	53	18:08 (EVE_WT01)	16:48	69	16:16 (EVE_WT02)	16:41	120	15:55 (KLZ_WT13)
25	05:59		06:28 (TEN_WT01)	06:46			07:35		08:28 (KLZ_WT17)	07:24		07:51 (SAM_WT06)	08:17		08:48 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:44	15	06:43 (TEN_WT01)	20:48			19:39	13	08:41 (KLZ_WT17)	17:34	47	17:06 (EVE_WT01)	16:47	67	16:15 (EVE_WT02)	16:42	120	15:55 (KLZ_WT13)
26	06:00		06:29 (TEN_WT01)	06:48			07:36		08:25 (KLZ_WT17)	07:26		07:53 (SAM_WT06)	08:19		09:18 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:43	13	06:42 (TEN_WT01)	20:46			19:37	18	08:43 (KLZ_WT17)	17:32	40	17:04 (EVE_WT01)	16:46	65	16:14 (EVE_WT02)	16:43	117	15:55 (KLZ_WT13)
27	06:02		06:30 (TEN_WT01)	06:49			07:38		08:24 (KLZ_WT17)	07:28		07:54 (SAM_WT06)	08:20		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:41	11	06:41 (TEN_WT01)	20:44			19:34	22	08:46 (KLZ_WT17)	17:30	33	08:51 (KLZ_WT05)	16:45	62	15:35 (KLZ_WT12)	16:43	115	15:55 (KLZ_WT13)
28	06:03		06:32 (EAM_WT01)	06:51			07:40		08:21 (KLZ_WT17)	07:30		07:56 (SAM_WT06)	08:22		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:40	9	06:41 (TEN_WT01)	20:42			19:32	25	08:46 (KLZ_WT17)	17:28	29	08:51 (KLZ_WT05)	16:44	64	15:36 (KLZ_WT12)	16:44	114	15:55 (KLZ_WT13)
29	06:05		06:33 (EAM_WT01)	06:52			07:41		08:20 (KLZ_WT17)	07:31		08:24 (KLZ_WT05)	08:23		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:38	6	06:39 (TEN_WT01)	20:40			19:30	27	08:47 (KLZ_WT17)	17:26	28	08:52 (KLZ_WT05)	16:43	64	15:36 (KLZ_WT12)	16:45	113	15:56 (KLZ_WT13)
30	06:06		06:34 (EAM_WT01)	06:54			07:43		08:18 (KLZ_WT17)	07:33		08:24 (KLZ_WT05)	08:25		09:19 (KLZ_WT23)	08:50		09:20 (SAM_WT05)
	21:37	2	06:36 (EAM_WT01)	20:38			19:28	29	08:47 (KLZ_WT17)	17:25	28	08:52 (KLZ_WT05)	16:43	66	15:37 (KLZ_WT12)	16:46	115	15:56 (KLZ_WT13)
31	06:08		06:36 (EAM_WT01)	06:55						07:35		08:24 (KLZ_WT05)				08:50		09:20 (SAM_WT05)
	21:35	1	06:37 (EAM_WT01)	20:35						17:23	27	08:51 (KLZ_WT05)				16:47	113	15:56 (KLZ_WT13)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		390			25			188			1102			1384			3444	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,66			0,57			0,59			0,64			0,67	
Total reduction		0,30			0,30			0,24			0,21			0,17			0,15	
Total, real		119			7			46			231			231			508	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32		08:12 (SAM_WT06)	07:23			06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	144	14:59 (KLZ_WT20)	17:35	87	17:05 (EVE_WT02)	18:25	48	17:59 (EVE_WT01)	20:17			21:06	6	06:50 (SAM_WT10)	21:51	9	06:13 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		08:32 (KLZ_WT05)	07:21		07:43 (KLZ_WT02)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	146	14:59 (KLZ_WT20)	17:36	83	17:07 (EVE_WT02)	18:26	47	18:01 (EVE_WT01)	20:19	3	07:46 (KLZ_WT02)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		08:32 (KLZ_WT05)	07:19		07:41 (KLZ_WT02)	06:16		06:40 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	145	15:00 (KLZ_WT20)	17:38	77	17:09 (EVE_WT02)	18:28	50	18:03 (EVE_WT01)	20:20	6	07:47 (KLZ_WT02)	21:10	7	06:47 (SAM_WT10)	21:53	12	06:15 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:32 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:40 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	148	15:00 (KLZ_WT20)	17:40	56	17:11 (EVE_WT02)	18:30	54	18:05 (EVE_WT01)	20:22	8	07:47 (KLZ_WT02)	21:11	6	06:46 (SAM_WT10)	21:54	13	06:15 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:31 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	147	15:00 (KLZ_WT20)	17:42	59	17:13 (EVE_WT02)	18:32	55	18:06 (EVE_WT01)	20:24	10	07:47 (KLZ_WT02)	21:13			21:55	14	06:16 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:31 (KLZ_WT05)	07:12		07:34 (KLZ_WT01)	06:11			05:33		06:01 (TEN_WT01)
	16:54	149	16:20 (KLZ_WT13)	17:44	62	17:15 (EVE_WT02)	18:33	58	18:08 (EVE_WT01)	20:25	12	07:46 (KLZ_WT02)	21:14			21:56	15	06:16 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		08:32 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	151	16:22 (KLZ_WT13)	17:45	64	17:16 (EVE_WT02)	18:35	58	18:10 (EVE_WT01)	20:27	13	07:45 (KLZ_WT02)	21:16			21:57	16	06:17 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT11)	07:17		07:40 (SAM_WT08)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	155	16:23 (KLZ_WT13)	17:47	66	17:18 (EVE_WT02)	18:37	60	18:10 (EVE_WT01)	20:29	12	07:43 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:19 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	154	16:25 (KLZ_WT13)	17:49	66	17:18 (EVE_WT02)	18:39	62	18:10 (EVE_WT01)	20:30	7	07:35 (KLZ_WT01)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:20 (SAM_WT05)	08:09		08:35 (SAM_WT11)	07:13		07:35 (KLZ_WT17)	07:03		07:30 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	154	16:26 (KLZ_WT13)	17:51	63	17:17 (EVE_WT02)	18:40	65	18:09 (EVE_WT01)	20:32	3	07:33 (KLZ_WT01)	21:21			21:59	18	06:18 (TEN_WT01)
11	08:46		09:22 (SAM_WT05)	08:08		08:37 (SAM_WT11)	07:10		07:33 (KLZ_WT17)	07:01			06:03			05:31		06:00 (TEN_WT01)
	17:00	148	16:27 (KLZ_WT13)	17:53	57	17:16 (EVE_WT02)	18:42	66	18:08 (EVE_WT01)	20:34			21:22			22:00	19	06:19 (TEN_WT01)
12	08:46		09:37 (KLZ_WT23)	08:06		16:21 (KLZ_WT12)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	149	16:29 (KLZ_WT13)	17:54	49	17:15 (EVE_WT02)	18:44	63	18:07 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		09:37 (KLZ_WT23)	08:04		16:21 (KLZ_WT12)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	149	16:31 (KLZ_WT13)	17:56	45	17:13 (EVE_WT02)	18:45	60	18:06 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		09:37 (KLZ_WT23)	08:02		16:22 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:00 (TEN_WT01)
	17:05	148	16:32 (KLZ_WT13)	17:58	35	17:09 (EVE_WT02)	18:47	54	18:04 (EVE_WT01)	20:38			21:27			22:02	19	06:19 (TEN_WT01)
15	08:44		09:38 (KLZ_WT23)	08:00		16:23 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:00 (TEN_WT01)
	17:06	148	16:34 (KLZ_WT13)	18:00	31	16:54 (KLZ_WT12)	18:49	41	18:02 (EVE_WT01)	20:40			21:28			22:02	20	06:20 (TEN_WT01)
16	08:43		09:38 (KLZ_WT23)	07:58		16:24 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	146	16:35 (KLZ_WT13)	18:02	29	16:53 (KLZ_WT12)	18:50	31	07:53 (KLZ_WT17)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		09:38 (KLZ_WT23)	07:57		16:26 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53		06:19 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:09	147	16:37 (KLZ_WT13)	18:03	26	16:52 (KLZ_WT12)	18:52	34	07:53 (KLZ_WT17)	20:43			21:31	1	06:20 (EAM_WT02)	22:03	19	06:20 (TEN_WT01)
18	08:41		09:39 (KLZ_WT23)	07:55		08:18 (SAM_WT06)	06:55		07:17 (KLZ_WT17)	06:46			05:52		06:18 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:11	144	16:39 (KLZ_WT13)	18:05	24	16:50 (KLZ_WT12)	18:54	36	07:53 (KLZ_WT17)	20:45			21:33	1	06:19 (EAM_WT02)	22:04	19	06:20 (TEN_WT01)
19	08:40		09:39 (KLZ_WT23)	07:53		08:16 (SAM_WT06)	06:53		07:17 (KLZ_WT17)	06:44			05:51			05:29		06:01 (TEN_WT01)
	17:12	140	16:39 (KLZ_WT13)	18:07	26	16:48 (KLZ_WT12)	18:55	36	07:53 (KLZ_WT17)	20:47			21:34			22:04	20	06:21 (TEN_WT01)
20	08:39		09:07 (SAM_WT07)	07:51		08:14 (SAM_WT06)	06:50		07:16 (KLZ_WT17)	06:42			05:49		06:16 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:14	137	16:40 (KLZ_WT13)	18:09	35	16:45 (KLZ_WT12)	18:57	37	07:53 (KLZ_WT17)	20:48			21:35	1	06:17 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
21	08:38		09:05 (SAM_WT07)	07:49		08:12 (SAM_WT06)	06:48		07:16 (KLZ_WT17)	06:40			05:48		06:14 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:16	133	16:40 (KLZ_WT13)	18:11	32	09:02 (KLZ_WT05)	18:59	36	07:52 (KLZ_WT17)	20:50			21:37	2	06:16 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
22	08:37		09:04 (SAM_WT07)	07:47		08:10 (SAM_WT06)	06:46		07:16 (KLZ_WT17)	06:38			05:47		06:13 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:17	119	16:40 (KLZ_WT13)	18:12	39	09:04 (KLZ_WT05)	19:00	36	07:52 (KLZ_WT17)	20:52			21:38	3	06:16 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
23	08:36		09:03 (SAM_WT07)	07:45		08:08 (SAM_WT06)	06:44		07:16 (KLZ_WT17)	06:36			05:46		06:12 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:19	119	16:42 (KLZ_WT12)	18:14	44	09:05 (KLZ_WT05)	19:02	35	07:51 (KLZ_WT17)	20:53			21:40	3	06:15 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:07 (SAM_WT06)	06:41		07:16 (KLZ_WT17)	06:34			05:44		06:11 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:21	121	16:45 (KLZ_WT12)	18:16	47	09:06 (KLZ_WT05)	19:04	35	07:51 (KLZ_WT17)	20:55			21:41	3	06:14 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:08 (SAM_WT06)	06:39		07:16 (KLZ_WT17)	06:32			05:43		06:10 (EAM_WT01)	05:31		06:03 (TEN_WT01)
	17:22	122	16:46 (KLZ_WT12)	18:18	48	09:07 (KLZ_WT05)	19:05	33	07:49 (KLZ_WT17)	20:57			21:42	3	06:13 (EAM_WT01)	22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:08 (SAM_WT06)	06:37		07:17 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	120	16:48 (KLZ_WT12)	18:19	49	09:08 (KLZ_WT05)	19:07	31	07:48 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:09 (SAM_WT06)	06:35		07:18 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	117	16:49 (KLZ_WT12)	18:21	49	09:09 (KLZ_WT05)	19:09	29	07:47 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:57 (SAM_WT07)	07:34		08:10 (SAM_WT06)	06:32		07:18 (KLZ_WT17)	06:26		06:49 (SAM_WT10)	05:40			05:32		06:03 (TEN_WT01)
	17:28	115	16:51 (KLZ_WT12)	18:23	46	09:08 (KLZ_WT05)	19:10	26	07:44 (KLZ_WT17)	21:01	1	06:50 (SAM_WT10)	21:46			22:05	20	06:23 (TEN_WT01)
29	08:28		08:57 (SAM_WT07)				07:30		08:20 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	109	16:52 (KLZ_WT12)				20:12	22	08:42 (KLZ_WT17)	21:03	3	06:51 (SAM_WT10)	21:47	1	06:08 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:58 (SAM_WT07)				07:28		08:22 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	101	16:53 (KLZ_WT12)				20:14	18	08:40 (KLZ_WT17)	21:05	4	06:50 (SAM_WT10)	21:48	5	06:11 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:58 (SAM_WT07)				07:25		08:25 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	89	17:03 (EVE_WT02)				20:15	11	08:36 (KLZ_WT17)				21:49	7	06:12 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		4214			1394			1327			82			55			531	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,66			0,66			0,59			0,64			0,69			0,71	
Total reduction		0,16			0,19			0,22			0,29			0,31			0,31	
Total, real		671			269			289			24			17			162	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57			07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		09:18 (KLZ_WT23)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33			19:25	63	18:46 (EVE_WT01)	17:21	65	16:47 (EVE_WT02)	16:42	150	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:28 (KLZ_WT01)	07:46		08:11 (KLZ_WT17)	07:38		08:06 (SAM_WT11)	08:27		09:03 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	3	07:31 (KLZ_WT01)	19:23	64	18:47 (EVE_WT01)	17:19	67	16:48 (EVE_WT02)	16:41	153	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (KLZ_WT17)	07:40		08:08 (SAM_WT11)	08:29		09:02 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	7	07:33 (KLZ_WT01)	19:21	65	18:46 (EVE_WT01)	17:17	66	16:48 (EVE_WT02)	16:41	154	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT11)	08:30		09:02 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:29			20:27	12	07:40 (KLZ_WT02)	19:19	64	18:47 (EVE_WT01)	17:16	64	16:46 (EVE_WT02)	16:40	155	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:16 (SAM_WT08)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	13	07:42 (KLZ_WT02)	19:16	60	18:47 (EVE_WT01)	17:14	61	16:44 (EVE_WT02)	16:40	153	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:16			07:05		07:30 (KLZ_WT01)	07:53		08:17 (SAM_WT08)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	12	07:42 (KLZ_WT02)	19:14	60	18:46 (EVE_WT01)	17:12	58	16:42 (EVE_WT02)	16:39	149	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		09:07 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	10	07:42 (KLZ_WT02)	19:12	59	18:45 (EVE_WT01)	17:11	59	16:41 (EVE_WT02)	16:39	146	14:47 (KLZ_WT20)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		09:07 (KLZ_WT05)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	8	07:41 (KLZ_WT02)	19:10	57	18:43 (EVE_WT01)	17:09	76	16:39 (EVE_WT02)	16:39	147	14:48 (KLZ_WT20)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10		07:35 (KLZ_WT02)	07:57		09:06 (KLZ_WT05)	07:50		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	7	06:56 (SAM_WT10)	20:15	6	07:41 (KLZ_WT02)	19:08	55	18:40 (EVE_WT01)	17:07	83	16:38 (EVE_WT02)	16:38	145	14:48 (KLZ_WT20)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		07:36 (KLZ_WT02)	07:59		09:06 (KLZ_WT05)	07:52		08:31 (SAM_WT07)	08:37		09:09 (SAM_WT05)
	22:00	11	06:22 (TEN_WT01)	21:18	7	06:57 (SAM_WT10)	20:13	3	07:39 (KLZ_WT02)	19:05	52	18:38 (EVE_WT01)	17:06	87	16:36 (EVE_WT02)	16:38	146	14:48 (KLZ_WT20)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13			08:01		09:06 (KLZ_WT05)	07:54		08:30 (SAM_WT07)	08:38		09:10 (SAM_WT05)
	21:59	10	06:22 (TEN_WT01)	21:16	6	06:57 (SAM_WT10)	20:11			19:03	49	18:36 (EVE_WT01)	17:04	92	16:35 (EVE_WT02)	16:38	144	14:49 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:17 (KLZ_WT17)	08:02		09:06 (KLZ_WT05)	07:56		08:29 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	8	06:21 (TEN_WT01)	21:14	5	06:58 (SAM_WT10)	20:09	10	08:27 (KLZ_WT17)	19:01	45	18:34 (EVE_WT01)	17:03	101	16:24 (KLZ_WT12)	16:38	144	14:49 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:14 (KLZ_WT17)	08:04		08:44 (SAM_WT06)	07:57		08:29 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	6	06:20 (TEN_WT01)	21:13	4	06:58 (SAM_WT10)	20:06	17	08:31 (KLZ_WT17)	18:59	47	18:31 (EVE_WT01)	17:01	109	16:24 (KLZ_WT12)	16:38	144	14:50 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:10 (KLZ_WT17)	08:06		08:42 (SAM_WT06)	07:59		08:29 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:56	4	06:19 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	22	08:32 (KLZ_WT17)	18:57	47	09:41 (KLZ_WT05)	17:00	115	16:23 (KLZ_WT12)	16:38	143	14:50 (KLZ_WT20)
15	05:46			06:30		06:57 (SAM_WT10)	07:19		08:09 (KLZ_WT17)	08:07		08:41 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56			21:09	1	06:58 (SAM_WT10)	20:02	25	08:34 (KLZ_WT17)	18:55	49	09:41 (KLZ_WT05)	16:59	117	16:22 (KLZ_WT12)	16:38	142	14:51 (KLZ_WT20)
16	05:48			06:32			07:21		08:07 (KLZ_WT17)	08:09		08:39 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55			21:07			20:00	28	08:35 (KLZ_WT17)	18:52	50	09:39 (KLZ_WT05)	16:57	120	16:21 (KLZ_WT12)	16:38	142	14:52 (KLZ_WT20)
17	05:49			06:33			07:22		08:05 (KLZ_WT17)	08:11		08:39 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54			21:05			19:57	31	08:36 (KLZ_WT17)	18:50	48	09:38 (KLZ_WT05)	16:56	122	16:20 (KLZ_WT12)	16:38	139	14:52 (KLZ_WT20)
18	05:50			06:35			07:24		08:04 (KLZ_WT17)	08:12		08:39 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53			21:03			19:55	32	08:36 (KLZ_WT17)	18:48	45	09:37 (KLZ_WT05)	16:55	121	16:19 (KLZ_WT12)	16:39	141	14:52 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37			07:25		08:03 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	3	06:23 (EAM_WT01)	21:01			19:53	34	08:37 (KLZ_WT17)	18:46	42	09:36 (KLZ_WT05)	16:53	119	16:16 (KLZ_WT12)	16:39	141	14:53 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38			07:27		08:03 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	3	06:24 (EAM_WT01)	20:59			19:50	35	08:38 (KLZ_WT17)	18:44	36	09:34 (KLZ_WT05)	16:52	119	16:15 (KLZ_WT13)	16:39	141	14:54 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40			07:28		08:01 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	3	06:26 (EAM_WT01)	20:57			19:48	36	08:37 (KLZ_WT17)	18:42	29	09:31 (KLZ_WT05)	16:51	133	16:16 (KLZ_WT13)	16:40	141	14:54 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41			07:30		08:01 (KLZ_WT17)	08:19		08:45 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	2	06:26 (EAM_WT01)	20:55			19:46	37	08:38 (KLZ_WT17)	18:40	32	17:16 (KLZ_WT12)	16:50	137	16:16 (KLZ_WT13)	16:40	141	14:55 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43			07:32		08:00 (KLZ_WT17)	08:21		08:47 (SAM_WT06)	08:14		09:15 (KLZ_WT23)	08:48		09:19 (SAM_WT05)
	21:47	1	06:26 (EAM_WT01)	20:53			19:44	37	08:37 (KLZ_WT17)	18:38	24	17:19 (KLZ_WT12)	16:49	141	16:16 (KLZ_WT13)	16:41	141	14:55 (KLZ_WT20)
24	05:58			06:44			07:33		08:00 (KLZ_WT17)	08:23		16:57 (KLZ_WT12)	08:16		09:16 (KLZ_WT23)	08:48		09:19 (SAM_WT05)
	21:45			20:50			19:41	37	08:37 (KLZ_WT17)	18:36	24	17:21 (KLZ_WT12)	16:48	144	16:16 (KLZ_WT13)	16:41	141	14:55 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46			07:35		07:59 (KLZ_WT17)	07:24		15:56 (KLZ_WT12)	08:17		09:16 (KLZ_WT23)	08:48		09:20 (SAM_WT05)
	21:44	1	06:29 (EAM_WT02)	20:48			19:39	37	08:36 (KLZ_WT17)	17:34	26	16:22 (KLZ_WT12)	16:47	146	16:15 (KLZ_WT13)	16:42	141	14:56 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48			07:36		08:01 (KLZ_WT17)	07:26		15:54 (KLZ_WT12)	08:19		09:16 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:43	1	06:30 (EAM_WT02)	20:46			19:37	35	08:36 (KLZ_WT17)	17:32	30	16:24 (KLZ_WT12)	16:46	147	16:14 (KLZ_WT13)	16:43	140	14:56 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:52 (KLZ_WT12)	08:20		09:17 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:41			20:44			19:34	32	08:35 (KLZ_WT17)	17:30	32	16:24 (KLZ_WT12)	16:45	148	16:13 (KLZ_WT13)	16:43	140	14:56 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:51 (KLZ_WT12)	08:22		09:18 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:40			20:42			19:32	39	18:41 (EVE_WT01)	17:28	39	16:40 (EVE_WT02)	16:44	148	16:12 (KLZ_WT13)	16:44	143	14:57 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		15:51 (KLZ_WT12)	08:23		09:17 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:38			20:40			19:30	50	18:44 (EVE_WT01)	17:26	45	16:43 (EVE_WT02)	16:43	149	16:11 (KLZ_WT13)	16:45	141	14:57 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		15:50 (KLZ_WT12)	08:25		09:18 (KLZ_WT23)	08:50		09:20 (SAM_WT05)
	21:37			20:38			19:28	59	18:45 (EVE_WT01)	17:25	51	16:45 (EVE_WT02)	16:43	149	16:10 (KLZ_WT13)	16:46	144	14:58 (KLZ_WT20)
31	06:08			06:55						07:35		08:06 (SAM_WT11)				08:50		09:20 (SAM_WT05)
	21:35			20:35						17:23	59	16:46 (EVE_WT02)				16:47	143	14:58 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		200			32			707			1448			3263			4475	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71			0,67			0,59			0,61			0,67			0,65	
Total reduction		0,31			0,31			0,25			0,22			0,17			0,14	
Total, real		62			10			177			312			570			643	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (SAM_WT06)	08:24		17:01 (KLZ_WT12)	07:32		08:26 (KLZ_WT02)	07:23			06:20		06:52 (SAM_WT10)	05:36		06:07 (EAM_WT01)
	16:48	122	16:14 (KLZ_WT20)	17:35	4	17:05 (KLZ_WT12)	18:25	18	08:44 (KLZ_WT02)	20:17			21:06	12	07:04 (SAM_WT10)	21:51	10	06:17 (EAM_WT01)
2	08:50		09:33 (SAM_WT06)	08:23		17:00 (KLZ_WT12)	07:30		08:28 (KLZ_WT02)	07:21			06:18		06:54 (SAM_WT10)	05:35		06:07 (EAM_WT01)
	16:49	121	16:15 (KLZ_WT20)	17:36	7	17:07 (KLZ_WT12)	18:26	14	08:42 (KLZ_WT02)	20:19			21:08	7	07:01 (SAM_WT10)	21:52	10	06:17 (EAM_WT01)
3	08:49		09:33 (SAM_WT06)	08:21		17:00 (KLZ_WT12)	07:28		08:30 (KLZ_WT02)	07:19			06:16			05:35		06:09 (EAM_WT01)
	16:50	120	16:17 (KLZ_WT20)	17:38	9	17:09 (KLZ_WT12)	18:28	10	08:40 (KLZ_WT02)	20:20			21:09			21:53	8	06:17 (EAM_WT01)
4	08:49		09:33 (SAM_WT06)	08:19		17:01 (KLZ_WT12)	07:26			07:16		07:39 (SAM_WT01)	06:15			05:34		06:09 (EAM_WT01)
	16:51	119	16:17 (KLZ_WT20)	17:40	10	17:11 (EVE_WT02)	18:30			20:22	2	07:41 (SAM_WT01)	21:11			21:54	7	06:16 (EAM_WT01)
5	08:49		09:34 (SAM_WT06)	08:18		17:01 (KLZ_WT12)	07:24			07:14		07:37 (SAM_WT01)	06:13			05:33		06:11 (EAM_WT01)
	16:52	117	16:19 (KLZ_WT20)	17:42	12	17:13 (EVE_WT02)	18:32			20:24	2	07:39 (SAM_WT01)	21:13			21:55	4	06:15 (EAM_WT01)
6	08:49		09:34 (SAM_WT06)	08:16		17:01 (KLZ_WT12)	07:21			07:12			06:11			05:33		
	16:54	114	16:20 (KLZ_WT20)	17:44	14	17:15 (EVE_WT02)	18:33			20:25			21:14			21:56		
7	08:48		09:35 (SAM_WT06)	08:15		17:02 (KLZ_WT12)	07:19		07:44 (KLZ_WT01)	07:10			06:09			05:32		
	16:55	110	16:22 (KLZ_WT20)	17:45	14	17:16 (EVE_WT02)	18:35	9	07:53 (KLZ_WT01)	20:27			21:16			21:56		
8	08:48		09:35 (SAM_WT06)	08:13		17:04 (KLZ_WT12)	07:17		07:42 (KLZ_WT01)	07:08			06:07			05:32		
	16:56	104	16:22 (KLZ_WT20)	17:47	15	17:19 (EVE_WT02)	18:37	13	07:55 (KLZ_WT01)	20:29			21:17			21:57		
9	08:48		09:37 (SAM_WT06)	08:11		17:05 (KLZ_WT12)	07:15		07:41 (KLZ_WT01)	07:05			06:06			05:31		
	16:57	104	16:25 (KLZ_WT20)	17:49	14	17:20 (EVE_WT02)	18:38	15	07:56 (KLZ_WT01)	20:30			21:19			21:58		
10	08:47		09:37 (SAM_WT06)	08:09			07:13		07:39 (KLZ_WT01)	07:03			06:04			05:31		
	16:59	103	16:26 (KLZ_WT20)	17:51			18:40	17	07:56 (KLZ_WT01)	20:32			21:21			21:59		
11	08:46		09:37 (SAM_WT06)	08:08			07:10		07:39 (KLZ_WT01)	07:01			06:03			05:30		
	17:00	102	16:27 (KLZ_WT20)	17:53			18:42	17	07:56 (KLZ_WT01)	20:33			21:22			22:00		
12	08:46		09:39 (SAM_WT06)	08:06			07:08		07:39 (KLZ_WT01)	06:59			06:01		06:26 (EAM_WT03)	05:30		
	17:02	98	16:29 (KLZ_WT20)	17:54			18:44	17	07:56 (KLZ_WT01)	20:35			21:24	2	06:28 (EAM_WT03)	22:00		
13	08:45		09:39 (SAM_WT06)	08:04			07:06		07:38 (KLZ_WT01)	06:57			05:59		06:25 (EAM_WT03)	05:30		
	17:03	95	16:31 (KLZ_WT20)	17:56			18:45	17	07:55 (KLZ_WT01)	20:37			21:25	3	06:28 (EAM_WT03)	22:01		
14	08:44		09:40 (SAM_WT06)	08:02		08:26 (SAM_WT08)	07:04		07:38 (KLZ_WT01)	06:55			05:58		06:23 (EAM_WT03)	05:30		
	17:05	88	16:32 (KLZ_WT20)	17:58	1	08:27 (SAM_WT08)	18:47	16	07:54 (KLZ_WT01)	20:38			21:27	4	06:27 (EAM_WT03)	22:02		
15	08:44		09:41 (SAM_WT06)	08:00		08:24 (SAM_WT08)	07:02		07:39 (KLZ_WT01)	06:52		07:15 (SAM_WT09)	05:56		06:22 (EAM_WT02)	05:30		
	17:06	86	16:34 (KLZ_WT20)	18:00	3	08:27 (SAM_WT08)	18:49	14	07:53 (KLZ_WT01)	20:40	1	07:16 (SAM_WT09)	21:28	5	06:27 (EAM_WT03)	22:02		
16	08:43		09:42 (SAM_WT06)	07:58		08:22 (SAM_WT08)	06:59		07:22 (SWB_WT01_RP)	06:50		07:13 (SAM_WT09)	05:55		06:21 (EAM_WT02)	05:29		
	17:08	83	16:35 (KLZ_WT20)	18:02	11	08:40 (KLZ_WT02)	18:50	11	07:51 (KLZ_WT01)	20:42	2	07:15 (SAM_WT09)	21:30	5	06:26 (EAM_WT03)	22:03		
17	08:42		09:44 (SAM_WT06)	07:56		08:20 (SAM_WT08)	06:57		07:19 (SWB_WT01_RP)	06:48		07:11 (SAM_WT09)	05:53		06:19 (EAM_WT02)	05:29		
	17:09	78	16:36 (KLZ_WT20)	18:03	18	08:43 (KLZ_WT02)	18:52	4	07:46 (KLZ_WT01)	20:43	3	07:14 (SAM_WT09)	21:31	4	06:23 (EAM_WT02)	22:03		
18	08:41		09:46 (SAM_WT06)	07:55		08:18 (SAM_WT08)	06:55		07:17 (SAM_WT02)	06:46		07:09 (SAM_WT09)	05:52		06:18 (EAM_WT02)	05:29		
	17:11	71	16:37 (KLZ_WT20)	18:05	23	08:45 (KLZ_WT02)	18:54	1	07:18 (SAM_WT02)	20:45	3	07:12 (SAM_WT09)	21:33	6	06:24 (EAM_WT02)	22:03		
19	08:40		09:50 (SAM_WT06)	07:53		08:17 (SAM_WT08)	06:53		07:15 (SAM_WT02)	06:44		07:07 (SAM_WT10)	05:51		06:17 (EAM_WT02)	05:29		
	17:12	61	16:37 (KLZ_WT20)	18:07	25	08:46 (KLZ_WT02)	18:55	3	07:18 (SAM_WT02)	20:47	1	07:08 (SAM_WT10)	21:34	7	06:24 (EAM_WT02)	22:04		
20	08:39		11:31 (KLZ_WT17)	07:51		08:26 (KLZ_WT02)	06:50		07:13 (SAM_WT02)	06:42		07:05 (SAM_WT10)	05:49		06:16 (EAM_WT01)	05:29		
	17:14	52	16:37 (KLZ_WT20)	18:09	22	17:42 (EVE_WT01)	18:57	4	07:17 (SAM_WT02)	20:48	4	07:09 (SAM_WT10)	21:35	8	06:24 (EAM_WT02)	22:04		
21	08:38		11:33 (KLZ_WT17)	07:49		08:26 (KLZ_WT02)	06:48		07:11 (SAM_WT02)	06:40		07:03 (SAM_WT10)	05:48		06:14 (EAM_WT01)	05:30		
	17:16	46	16:37 (KLZ_WT20)	18:11	26	17:44 (EVE_WT01)	18:59	3	07:14 (SAM_WT02)	20:50	6	07:09 (SAM_WT10)	21:37	8	06:22 (EAM_WT02)	22:04		
22	08:37		11:39 (KLZ_WT17)	07:47		08:25 (KLZ_WT02)	06:46		07:08 (SAM_WT03)	06:38		07:01 (SAM_WT10)	05:47		06:13 (EAM_WT01)	05:30		
	17:17	34	16:37 (KLZ_WT20)	18:12	29	17:46 (EVE_WT01)	19:00	2	07:10 (SAM_WT03)	20:52	9	07:10 (SAM_WT10)	21:38	8	06:21 (EAM_WT02)	22:05		
23	08:36		16:12 (KLZ_WT20)	07:45		08:25 (KLZ_WT02)	06:44		07:06 (SAM_WT03)	06:36		06:59 (SAM_WT10)	05:45		06:12 (EAM_WT01)	05:30		
	17:19	25	16:37 (KLZ_WT20)	18:14	32	17:48 (EVE_WT01)	19:02	4	07:10 (SAM_WT03)	20:53	11	07:10 (SAM_WT10)	21:40	8	06:20 (EAM_WT02)	22:05		
24	08:35		16:13 (KLZ_WT20)	07:43		08:25 (KLZ_WT02)	06:41		07:03 (SAM_WT03)	06:34		06:57 (SAM_WT10)	05:44		06:11 (EAM_WT01)	05:30		
	17:21	24	16:37 (KLZ_WT20)	18:16	33	17:50 (EVE_WT01)	19:04	6	07:09 (SAM_WT03)	20:55	13	07:10 (SAM_WT10)	21:41	7	06:18 (EAM_WT01)	22:05		
25	08:34		16:13 (KLZ_WT20)	07:41		08:25 (KLZ_WT02)	06:39		07:01 (SAM_WT03)	06:32		06:55 (SAM_WT10)	05:43		06:10 (EAM_WT01)	05:31		
	17:22	24	16:51 (KLZ_WT13)	18:18	34	17:52 (EVE_WT01)	19:05	7	07:08 (SAM_WT03)	20:56	14	07:09 (SAM_WT10)	21:42	8	06:18 (EAM_WT01)	22:05		
26	08:32		16:15 (KLZ_WT20)	07:38		08:25 (KLZ_WT02)	06:37		07:01 (SAM_WT03)	06:30		06:53 (SAM_WT10)	05:42		06:09 (EAM_WT01)	05:31		
	17:24	24	16:54 (KLZ_WT13)	18:19	31	17:51 (EVE_WT01)	19:07	5	07:06 (SAM_WT03)	20:58	16	07:09 (SAM_WT10)	21:43	9	06:18 (EAM_WT01)	22:05		
27	08:31		16:16 (KLZ_WT20)	07:36		08:26 (KLZ_WT02)	06:34			06:28		06:51 (SAM_WT10)	05:41		06:08 (EAM_WT01)	05:31		
	17:26	23	16:55 (KLZ_WT13)	18:21	21	08:47 (KLZ_WT02)	19:09			21:00	17	07:08 (SAM_WT10)	21:45	10	06:18 (EAM_WT01)	22:05		
28	08:30		16:18 (KLZ_WT20)	07:34		08:25 (KLZ_WT02)	06:32			06:26		06:49 (SAM_WT10)	05:40		06:07 (EAM_WT01)	05:32		
	17:27	22	16:57 (KLZ_WT13)	18:23	21	08:46 (KLZ_WT02)	19:10			21:01	18	07:07 (SAM_WT10)	21:46	11	06:18 (EAM_WT01)	22:05		
29	08:28		16:20 (KLZ_WT20)				07:30		07:52 (SWB_WT02_RP)	06:24		06:50 (SAM_WT10)	05:39		06:06 (EAM_WT01)	05:32		
	17:29	19	16:59 (KLZ_WT13)				20:12	1	07:53 (SWB_WT02_RP)	21:03	17	07:07 (SAM_WT10)	21:47	12	06:18 (EAM_WT01)	22:05		
30	08:27		16:24 (KLZ_WT20)				07:28		07:50 (SWB_WT02_RP)	06:22		06:51 (SAM_WT10)	05:38		06:06 (EAM_WT01)	05:33		
	17:31	13	17:01 (KLZ_WT13)				20:14	1	07:51 (SWB_WT02_RP)	21:05	15	07:06 (SAM_WT10)	21:48	12	06:18 (EAM_WT01)	22:04		
31	08:25		16:55 (KLZ_WT13)				07:25						05:37		06:07 (EAM_WT01)			
	17:33	8	17:03 (KLZ_WT12)				20:15						21:49	11	06:18 (EAM_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2210			429			229			154			167			39	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,60			0,57			0,65			0,70			0,70	
Total reduction		0,15			0,18			0,21			0,30			0,31			0,30	
Total, real		342			76			49			46			52			12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (EAM_WT03)	06:57			07:44		08:17 (KLZ_WT01)	07:37		16:38 (KLZ_WT12)	08:26		09:19 (SAM_WT06)
	22:04			21:34	1	06:38 (EAM_WT03)	20:33			19:25	18	08:35 (KLZ_WT01)	17:21	2	16:40 (KLZ_WT12)	16:42	102	16:09 (KLZ_WT20)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT01)	07:38		16:35 (KLZ_WT12)	08:27		09:20 (SAM_WT06)
	22:04			21:32			20:31			19:23	18	08:35 (KLZ_WT01)	17:19	15	16:50 (EVE_WT02)	16:41	103	16:09 (KLZ_WT20)
3	05:35			06:12			07:00			07:48		08:17 (KLZ_WT01)	07:40		16:32 (KLZ_WT12)	08:29		09:20 (SAM_WT06)
	22:04			21:30			20:29			19:21	17	08:34 (KLZ_WT01)	17:17	16	16:48 (EVE_WT02)	16:41	104	16:08 (KLZ_WT20)
4	05:36			06:13			07:02			07:49		08:17 (KLZ_WT01)	07:42		16:31 (KLZ_WT12)	08:30		09:20 (SAM_WT06)
	22:03			21:29			20:27			19:19	16	08:33 (KLZ_WT01)	17:16	15	16:46 (EVE_WT02)	16:40	105	16:08 (KLZ_WT20)
5	05:37			06:15			07:03			07:51		08:18 (KLZ_WT01)	07:43		16:31 (KLZ_WT12)	08:31		09:20 (SAM_WT06)
	22:03			21:27			20:24			19:16	14	08:32 (KLZ_WT01)	17:14	13	16:44 (EVE_WT02)	16:40	109	16:07 (KLZ_WT20)
6	05:37			06:16			07:05			07:53		08:19 (KLZ_WT01)	07:45		16:30 (KLZ_WT12)	08:33		09:20 (SAM_WT06)
	22:02			21:25			20:22			19:14	11	08:30 (KLZ_WT01)	17:12	12	16:42 (EVE_WT02)	16:39	114	16:06 (KLZ_WT20)
7	05:38		06:18 (EAM_WT01)	06:18			07:06		07:32 (SAM_WT01)	07:54		08:21 (KLZ_WT01)	07:47		16:30 (KLZ_WT12)	08:34		09:21 (SAM_WT06)
	22:02	3	06:21 (EAM_WT01)	21:24			20:20	2	07:34 (SAM_WT01)	19:12	7	08:28 (KLZ_WT01)	17:11	11	16:41 (EVE_WT02)	16:39	116	16:06 (KLZ_WT20)
8	05:39		06:17 (EAM_WT01)	06:19			07:08		07:33 (SAM_WT01)	07:56			07:49		16:31 (KLZ_WT12)	08:35		09:21 (SAM_WT06)
	22:01	6	06:23 (EAM_WT01)	21:22			20:18	2	07:35 (SAM_WT01)	19:10			17:09	8	16:39 (KLZ_WT12)	16:39	118	16:05 (KLZ_WT20)
9	05:40		06:16 (EAM_WT01)	06:21			07:10			07:57			07:50		16:31 (KLZ_WT12)	08:36		09:21 (SAM_WT06)
	22:00	8	06:24 (EAM_WT01)	21:20			20:15			19:08			17:07	7	16:38 (KLZ_WT12)	16:38	121	16:05 (KLZ_WT20)
10	05:41		06:16 (EAM_WT01)	06:23			07:11			07:59		09:07 (KLZ_WT02)	07:52		16:32 (KLZ_WT12)	08:37		09:22 (SAM_WT06)
	22:00	9	06:25 (EAM_WT01)	21:18			20:13			19:05	4	09:11 (KLZ_WT02)	17:06	4	16:36 (KLZ_WT12)	16:38	120	16:04 (KLZ_WT20)
11	05:42		06:16 (EAM_WT01)	06:24		07:02 (SAM_WT10)	07:13			08:01		09:03 (KLZ_WT02)	07:54		16:26 (KLZ_WT13)	08:38		09:22 (SAM_WT06)
	21:59	10	06:26 (EAM_WT01)	21:16	9	07:11 (SAM_WT10)	20:11			19:03	12	09:15 (KLZ_WT02)	17:04	9	16:35 (KLZ_WT12)	16:38	122	16:04 (KLZ_WT20)
12	05:43		06:15 (EAM_WT01)	06:26		07:00 (SAM_WT10)	07:14			08:02		09:00 (KLZ_WT02)	07:56		15:54 (KLZ_WT20)	08:39		09:22 (SAM_WT06)
	21:58	11	06:26 (EAM_WT01)	21:14	13	07:13 (SAM_WT10)	20:09			19:01	16	09:16 (KLZ_WT02)	17:03	14	16:32 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
13	05:44		06:15 (EAM_WT01)	06:27		06:58 (SAM_WT10)	07:16		07:41 (SWB_WT02_RP)	08:04		08:59 (KLZ_WT02)	07:57		15:51 (KLZ_WT20)	08:40		09:23 (SAM_WT06)
	21:57	12	06:27 (EAM_WT01)	21:13	16	07:14 (SAM_WT10)	20:06	1	07:42 (SWB_WT02_RP)	18:59	19	09:18 (KLZ_WT02)	17:01	20	16:31 (KLZ_WT13)	16:38	125	16:04 (KLZ_WT20)
14	05:45		06:15 (EAM_WT01)	06:29		06:58 (SAM_WT10)	07:17		07:42 (SWB_WT02_RP)	08:06		08:58 (KLZ_WT02)	07:59		15:50 (KLZ_WT20)	08:41		09:23 (SAM_WT06)
	21:56	12	06:27 (EAM_WT01)	21:11	17	07:15 (SAM_WT10)	20:04	1	07:43 (SWB_WT02_RP)	18:57	21	09:19 (KLZ_WT02)	17:00	22	16:29 (KLZ_WT13)	16:38	123	16:04 (KLZ_WT20)
15	05:46		06:16 (EAM_WT01)	06:30		06:57 (SAM_WT10)	07:19			08:07		08:58 (KLZ_WT02)	08:01		15:49 (KLZ_WT20)	08:42		09:24 (SAM_WT06)
	21:56	11	06:27 (EAM_WT01)	21:09	18	07:15 (SAM_WT10)	20:02			18:55	27	18:22 (EVE_WT01)	16:58	23	16:28 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
16	05:47		06:17 (EAM_WT01)	06:32		06:59 (SAM_WT10)	07:21			08:09		08:56 (KLZ_WT02)	08:02		15:48 (KLZ_WT20)	08:43		09:25 (SAM_WT06)
	21:55	11	06:28 (EAM_WT01)	21:07	17	07:16 (SAM_WT10)	19:59			18:52	32	18:23 (EVE_WT01)	16:57	24	16:27 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
17	05:49		06:18 (EAM_WT01)	06:33		07:00 (SAM_WT10)	07:22		07:50 (SAM_WT03)	08:11		08:56 (KLZ_WT02)	08:04		15:47 (KLZ_WT20)	08:44		09:25 (SAM_WT06)
	21:54	10	06:28 (EAM_WT01)	21:05	16	07:16 (SAM_WT10)	19:57	4	07:54 (SAM_WT03)	18:50	34	18:22 (EVE_WT01)	16:56	24	16:25 (KLZ_WT13)	16:38	126	16:05 (KLZ_WT20)
18	05:50		06:19 (EAM_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:48 (SAM_WT03)	08:12		08:56 (KLZ_WT02)	08:06		15:47 (KLZ_WT20)	08:45		09:25 (SAM_WT06)
	21:52	9	06:28 (EAM_WT01)	21:03	14	07:16 (SAM_WT10)	19:55	7	07:55 (SAM_WT03)	18:48	32	18:20 (EVE_WT01)	16:55	24	16:11 (KLZ_WT20)	16:39	124	16:04 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (SAM_WT03)	08:14		08:56 (KLZ_WT02)	08:07		15:46 (KLZ_WT20)	08:45		09:26 (SAM_WT06)
	21:51	8	06:28 (EAM_WT01)	21:01	12	07:15 (SAM_WT10)	19:53	6	07:56 (SAM_WT03)	18:46	31	18:18 (EVE_WT01)	16:53	25	16:11 (KLZ_WT20)	16:39	126	16:05 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38		07:05 (SAM_WT10)	07:27		07:52 (SAM_WT03)	08:16		08:57 (KLZ_WT02)	08:09		11:14 (KLZ_WT17)	08:46		09:27 (SAM_WT06)
	21:50	8	06:29 (EAM_WT02)	20:59	10	07:15 (SAM_WT10)	19:50	5	07:57 (SAM_WT03)	18:44	28	18:16 (EVE_WT01)	16:52	34	16:12 (KLZ_WT20)	16:39	123	16:05 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40		07:06 (SAM_WT10)	07:28		07:53 (SAM_WT03)	08:18		08:56 (KLZ_WT02)	08:11		11:09 (KLZ_WT17)	08:47		09:27 (SAM_WT06)
	21:49	8	06:31 (EAM_WT02)	20:57	8	07:14 (SAM_WT10)	19:48	3	07:56 (SAM_WT03)	18:42	25	18:14 (EVE_WT01)	16:51	46	16:13 (KLZ_WT20)	16:40	123	16:05 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41		07:08 (SAM_WT10)	07:30			08:19		08:57 (KLZ_WT02)	08:12		11:07 (KLZ_WT17)	08:47		09:28 (SAM_WT06)
	21:48	8	06:32 (EAM_WT02)	20:55	6	07:14 (SAM_WT10)	19:46			18:40	21	18:12 (EVE_WT01)	16:50	52	16:13 (KLZ_WT20)	16:40	123	16:06 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43		07:09 (SAM_WT10)	07:32		07:56 (SAM_WT02)	08:21		08:47 (SAM_WT08)	08:14		09:26 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:47	8	06:33 (EAM_WT02)	20:53	3	07:12 (SAM_WT10)	19:44	4	08:00 (SAM_WT02)	18:38	26	09:16 (KLZ_WT02)	16:49	60	16:13 (KLZ_WT20)	16:41	123	16:06 (KLZ_WT20)
24	05:58		06:26 (EAM_WT02)	06:44			07:33		07:58 (SAM_WT02)	08:23		08:49 (SAM_WT08)	08:16		09:23 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:45	7	06:33 (EAM_WT02)	20:50			19:41	3	08:01 (SAM_WT02)	18:36	22	09:15 (KLZ_WT02)	16:48	71	16:14 (KLZ_WT20)	16:41	124	16:07 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46		07:12 (SAM_WT09)	07:35		07:59 (SAM_WT02)	07:24		07:51 (SAM_WT08)	08:17		09:22 (SAM_WT06)	08:48		09:29 (SAM_WT06)
	21:44	6	06:34 (EAM_WT02)	20:48	4	07:16 (SAM_WT09)	19:39	2	08:01 (SAM_WT02)	17:34	17	08:13 (KLZ_WT02)	16:47	78	16:14 (KLZ_WT20)	16:42	124	16:08 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48		07:14 (SAM_WT09)	07:36		08:01 (SWB_WT01_RP)	07:26		07:53 (SAM_WT08)	08:19		09:21 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:43	5	06:34 (EAM_WT02)	20:46	3	07:17 (SAM_WT09)	19:37	2	08:03 (SWB_WT01_RP)	17:32	6	08:09 (KLZ_WT02)	16:46	81	16:13 (KLZ_WT20)	16:43	124	16:08 (KLZ_WT20)
27	06:02		06:30 (EAM_WT02)	06:49		07:15 (SAM_WT09)	07:38		08:03 (SWB_WT01_RP)	07:28		07:54 (SAM_WT08)	08:20		09:20 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:41	5	06:35 (EAM_WT03)	20:44	2	07:17 (SAM_WT09)	19:34	10	08:32 (KLZ_WT01)	17:30	3	07:57 (SAM_WT08)	16:45	85	16:13 (KLZ_WT20)	16:43	125	16:09 (KLZ_WT20)
28	06:03		06:32 (EAM_WT02)	06:51		07:17 (SAM_WT09)	07:40		08:21 (KLZ_WT01)	07:30			08:22		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:40	5	06:37 (EAM_WT03)	20:42	1	07:18 (SAM_WT09)	19:32	12	08:33 (KLZ_WT01)	17:28			16:44	88	16:12 (KLZ_WT20)	16:44	124	16:10 (KLZ_WT20)
29	06:05		06:33 (EAM_WT02)	06:52			07:41		08:20 (KLZ_WT01)	07:31			08:23		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:38	4	06:37 (EAM_WT03)	20:40			19:30	14	08:34 (KLZ_WT01)	17:26			16:43	94	16:11 (KLZ_WT20)	16:45	125	16:10 (KLZ_WT20)
30	06:06		06:34 (EAM_WT03)	06:54			07:43		08:18 (KLZ_WT01)	07:33			08:25		09:20 (SAM_WT06)	08:50		09:31 (SAM_WT06)
	21:37	4	06:38 (EAM_WT03)	20:38			19:28	16	08:34 (KLZ_WT01)	17:25			16:43	98	16:10 (KLZ_WT20)	16:46	124	16:11 (KLZ_WT20)
31	06:07		06:36 (EAM_WT03)	06:55						07:35						08:50		09:31 (SAM_WT06)
	21:35	2	06:38 (EAM_WT03)	20:35						17:23						16:47	124	16:12 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		190			170			94			477			1075			3716	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,66			0,59			0,57			0,66			0,63	
Total reduction		0,31			0,30			0,25			0,20			0,17			0,14	
Total, real		58			51			23			96			185			516	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:08 (SAM_WT07)	08:24			07:32		17:40 (KLZ_WT20)	07:23		07:45 (SWB_WT01_RP)	06:20			05:36		06:24 (KLZ_WT01)
	16:48	77	15:14 (KLZ_WT21)	17:35			18:25	19	17:59 (KLZ_WT13)	20:17	31	19:30 (KLZ_WT05)	21:06			21:51	79	19:56 (KLZ_WT04)
2	08:50		10:09 (SAM_WT07)	08:22			07:30		17:39 (KLZ_WT20)	07:21		07:43 (SWB_WT01_RP)	06:18			05:36		06:25 (KLZ_WT01)
	16:49	74	15:14 (KLZ_WT21)	17:36			18:26	22	18:01 (KLZ_WT13)	20:19	32	19:31 (KLZ_WT05)	21:08			21:52	78	19:57 (KLZ_WT04)
3	08:49		10:10 (SAM_WT07)	08:21			07:28		17:39 (KLZ_WT20)	07:19		19:01 (KLZ_WT05)	06:16			05:35		06:03 (SAM_WT10)
	16:50	70	15:13 (KLZ_WT21)	17:38			18:28	24	18:03 (EVE_WT02)	20:20	30	19:31 (KLZ_WT05)	21:09			21:53	79	19:57 (KLZ_WT04)
4	08:49		10:10 (SAM_WT07)	08:19		08:57 (SAM_WT06)	07:26		17:38 (KLZ_WT20)	07:16		19:01 (KLZ_WT05)	06:15		06:39 (SAM_WT09)	05:34		06:02 (SAM_WT10)
	16:51	65	15:12 (KLZ_WT21)	17:40	7	09:04 (SAM_WT06)	18:30	27	18:05 (EVE_WT02)	20:22	30	19:31 (KLZ_WT05)	21:11	2	06:41 (SAM_WT09)	21:54	81	19:58 (KLZ_WT04)
5	08:49		10:12 (SAM_WT07)	08:18		08:53 (SAM_WT06)	07:24		17:37 (KLZ_WT20)	07:14		19:01 (KLZ_WT05)	06:13		06:37 (SAM_WT09)	05:33		06:02 (SAM_WT10)
	16:52	60	15:11 (KLZ_WT21)	17:42	15	09:08 (SAM_WT06)	18:32	29	18:06 (EVE_WT02)	20:24	30	19:31 (KLZ_WT05)	21:13	3	06:40 (SAM_WT09)	21:55	81	19:59 (KLZ_WT04)
6	08:49		10:12 (SAM_WT07)	08:16		08:51 (SAM_WT06)	07:21		07:44 (SAM_WT08)	07:12		07:34 (SAM_WT02)	06:11		06:35 (SAM_WT09)	05:33		06:01 (SAM_WT10)
	16:54	52	13:14 (KLZ_WT23)	17:44	19	09:10 (SAM_WT06)	18:33	33	18:07 (KLZ_WT20)	20:25	31	19:30 (KLZ_WT05)	21:14	4	06:39 (SAM_WT09)	21:56	81	19:59 (KLZ_WT04)
7	08:48		09:18 (SAM_WT04)	08:15		08:49 (SAM_WT06)	07:19		07:42 (SAM_WT08)	07:10		07:32 (SAM_WT02)	06:09		06:34 (SAM_WT09)	05:32		06:01 (SAM_WT10)
	16:55	49	13:14 (KLZ_WT23)	17:45	22	09:11 (SAM_WT06)	18:35	35	18:07 (KLZ_WT20)	20:27	32	19:29 (KLZ_WT05)	21:16	4	06:38 (SAM_WT09)	21:56	82	20:00 (KLZ_WT04)
8	08:48		09:17 (SAM_WT04)	08:13		08:48 (SAM_WT06)	07:17		07:40 (SAM_WT08)	07:08		07:30 (SAM_WT02)	06:08			05:32		06:00 (SAM_WT10)
	16:56	48	13:14 (KLZ_WT23)	17:47	25	09:13 (SAM_WT06)	18:37	38	18:08 (KLZ_WT06)	20:29	31	19:28 (KLZ_WT05)	21:17			21:57	86	20:00 (KLZ_WT04)
9	08:47		09:17 (SAM_WT04)	08:11		08:47 (SAM_WT06)	07:15		07:37 (SAM_WT08)	07:05		07:28 (SAM_WT02)	06:06			05:31		06:00 (SAM_WT10)
	16:57	43	13:14 (KLZ_WT23)	17:49	27	09:14 (SAM_WT06)	18:38	40	18:08 (KLZ_WT06)	20:30	32	19:28 (KLZ_WT05)	21:19			21:58	89	20:00 (KLZ_WT04)
10	08:47		09:16 (SAM_WT04)	08:09		08:46 (SAM_WT06)	07:13		07:35 (SAM_WT08)	07:03		19:03 (KLZ_WT05)	06:04			05:31		06:00 (SAM_WT10)
	16:59	35	13:13 (KLZ_WT23)	17:51	29	09:15 (SAM_WT06)	18:40	42	18:09 (KLZ_WT06)	20:32	23	19:26 (KLZ_WT05)	21:21			21:59	89	20:01 (KLZ_WT04)
11	08:46		09:15 (SAM_WT04)	08:08		08:45 (SAM_WT06)	07:10		07:34 (SAM_WT08)	07:01		19:04 (KLZ_WT05)	06:03			05:30		05:59 (SAM_WT10)
	17:00	34	13:12 (KLZ_WT23)	17:53	31	09:16 (SAM_WT06)	18:42	44	18:17 (KLZ_WT12)	20:33	20	19:24 (KLZ_WT05)	21:22			22:00	92	20:01 (KLZ_WT04)
12	08:46		09:15 (SAM_WT04)	08:06		08:45 (SAM_WT06)	07:08		07:36 (SAM_WT08)	06:59		19:06 (KLZ_WT05)	06:01			05:30		05:59 (SAM_WT10)
	17:02	34	13:12 (KLZ_WT23)	17:54	31	09:16 (SAM_WT06)	18:44	42	18:19 (KLZ_WT12)	20:35	16	19:22 (KLZ_WT05)	21:24			22:00	90	20:01 (KLZ_WT04)
13	08:45		09:14 (SAM_WT04)	08:04		08:44 (SAM_WT06)	07:06		17:40 (KLZ_WT20)	06:57		07:19 (SAM_WT03)	05:59			05:30		05:59 (SAM_WT10)
	17:03	32	13:11 (KLZ_WT23)	17:56	33	09:17 (SAM_WT06)	18:45	37	18:20 (KLZ_WT12)	20:37	14	19:20 (KLZ_WT05)	21:25			22:01	91	20:02 (KLZ_WT04)
14	08:44		09:13 (SAM_WT04)	08:02		08:44 (SAM_WT06)	07:04		17:42 (KLZ_WT20)	06:55		07:17 (SAM_WT03)	05:58		06:29 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:05	30	13:09 (KLZ_WT23)	17:58	33	09:17 (SAM_WT06)	18:47	37	18:22 (KLZ_WT12)	20:38	5	07:22 (SAM_WT03)	21:27	19	19:30 (KLZ_WT04)	22:02	91	20:02 (KLZ_WT04)
15	08:44		09:12 (SAM_WT04)	08:00		08:43 (SAM_WT06)	07:02		17:45 (KLZ_WT20)	06:52		07:15 (SAM_WT03)	05:56		06:27 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:06	27	13:07 (KLZ_WT23)	18:00	34	09:17 (SAM_WT06)	18:49	35	18:24 (KLZ_WT12)	20:40	7	07:22 (SAM_WT03)	21:28	33	19:35 (KLZ_WT04)	22:02	94	20:03 (KLZ_WT04)
16	08:43		09:11 (SAM_WT04)	07:58		08:43 (SAM_WT06)	06:59		17:53 (KLZ_WT06)	06:50		07:13 (SAM_WT03)	05:55		06:26 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:08	15	09:26 (SAM_WT11)	18:02	34	09:17 (SAM_WT06)	18:50	28	18:26 (KLZ_WT12)	20:42	8	07:21 (SAM_WT03)	21:30	40	19:38 (KLZ_WT04)	22:03	95	20:03 (KLZ_WT04)
17	08:42		09:10 (SAM_WT04)	07:56		08:43 (SAM_WT06)	06:57		17:55 (KLZ_WT06)	06:48		07:12 (SAM_WT03)	05:53		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:09	17	09:27 (SAM_WT11)	18:03	34	09:17 (SAM_WT06)	18:52	21	18:25 (KLZ_WT12)	20:43	8	07:20 (SAM_WT03)	21:31	47	19:39 (KLZ_WT04)	22:03	94	20:03 (KLZ_WT04)
18	08:41		09:09 (SAM_WT04)	07:55		08:43 (SAM_WT06)	06:55		18:13 (KLZ_WT12)	06:46		07:13 (SAM_WT03)	05:52		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:11	18	09:27 (SAM_WT11)	18:05	34	09:17 (SAM_WT06)	18:54	11	18:24 (KLZ_WT12)	20:45	5	07:18 (SAM_WT03)	21:33	52	19:41 (KLZ_WT04)	22:03	95	20:04 (KLZ_WT04)
19	08:40		09:08 (SAM_WT11)	07:53		08:44 (SAM_WT06)	06:53		18:15 (KLZ_WT12)	06:44			05:51		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:12	19	09:27 (SAM_WT11)	18:07	32	09:16 (SAM_WT06)	18:55	9	18:31 (EVE_WT01)	20:47			21:34	56	19:43 (KLZ_WT04)	22:04	96	20:04 (KLZ_WT04)
20	08:39		09:07 (SAM_WT11)	07:51		08:44 (SAM_WT06)	06:50		18:29 (EVE_WT01)	06:42			05:49		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:14	21	09:28 (SAM_WT11)	18:09	32	09:16 (SAM_WT06)	18:57	3	18:32 (EVE_WT01)	20:48			21:35	60	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
21	08:38		09:05 (SAM_WT11)	07:49		08:45 (SAM_WT06)	06:48		18:27 (EVE_WT01)	06:40			05:48		06:22 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:16	22	09:27 (SAM_WT11)	18:11	30	09:15 (SAM_WT06)	18:59	6	18:33 (EVE_WT01)	20:50			21:37	63	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
22	08:37		09:05 (SAM_WT11)	07:47		08:45 (SAM_WT06)	06:46		18:27 (EVE_WT01)	06:38		07:01 (SAM_WT01)	05:47		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:17	23	09:28 (SAM_WT11)	18:12	29	09:14 (SAM_WT06)	19:00	8	18:35 (EVE_WT01)	20:52	2	07:03 (SAM_WT01)	21:38	66	19:47 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
23	08:36		09:06 (SAM_WT11)	07:45		08:46 (SAM_WT06)	06:43		18:28 (EVE_WT01)	06:36		06:59 (SAM_WT01)	05:45		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:19	22	09:28 (SAM_WT11)	18:14	27	09:13 (SAM_WT06)	19:02	9	18:37 (EVE_WT01)	20:53	2	07:01 (SAM_WT01)	21:40	68	19:48 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
24	08:35		09:06 (SAM_WT11)	07:43		08:48 (SAM_WT06)	06:41		18:28 (EVE_WT01)	06:34		06:57 (SAM_WT01)	05:44		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:21	21	09:27 (SAM_WT11)	18:16	23	09:11 (SAM_WT06)	19:04	10	18:38 (EVE_WT01)	20:55	2	06:59 (SAM_WT01)	21:41	71	19:49 (KLZ_WT04)	22:05	96	20:05 (KLZ_WT04)
25	08:34		09:07 (SAM_WT11)	07:40		08:49 (SAM_WT06)	06:39		18:30 (EVE_WT01)	06:32			05:43		06:22 (KLZ_WT01)	05:31		06:00 (SAM_WT10)
	17:22	20	09:27 (SAM_WT11)	18:18	25	17:52 (KLZ_WT20)	19:05	6	18:36 (EVE_WT01)	20:56			21:42	72	19:50 (KLZ_WT04)	22:05	95	20:05 (KLZ_WT04)
26	08:32		09:09 (SAM_WT11)	07:38		08:51 (SAM_WT06)	06:37		18:15 (KLZ_WT05)	06:30			05:42		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:24	18	09:27 (SAM_WT11)	18:19	24	17:54 (KLZ_WT13)	19:07	7	18:22 (KLZ_WT05)	20:58			21:43	74	19:51 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
27	08:31		09:09 (SAM_WT11)	07:36		08:55 (SAM_WT06)	06:34		18:11 (KLZ_WT05)	06:28			05:41		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:26	16	09:25 (SAM_WT11)	18:21	21	17:56 (KLZ_WT13)	19:09	14	18:25 (KLZ_WT05)	21:00			21:45	75	19:52 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
28	08:30		09:11 (SAM_WT11)	07:34		17:41 (KLZ_WT20)	06:32		18:08 (KLZ_WT05)	06:26			05:40		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:27	14	09:25 (SAM_WT11)	18:23	16	17:57 (KLZ_WT13)	19:10	18	18:26 (KLZ_WT05)	21:01			21:46	75	19:52 (KLZ_WT04)	22:05	93	20:06 (KLZ_WT04)
29	08:28		09:13 (SAM_WT11)				07:30		19:06 (KLZ_WT05)	06:24			05:39		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:29	9	09:22 (SAM_WT11)				20:12	22	19:28 (KLZ_WT05)	21:03			21:47	77	19:53 (KLZ_WT04)	22:05	91	20:05 (KLZ_WT04)
30	08:27						07:28		19:05 (KLZ_WT05)	06:22			05:38		06:23 (KLZ_WT01)	05:33		06:03 (SAM_WT10)
	17:31						20:14	25	19:30 (KLZ_WT05)	21:05			21:48	78	19:55 (KLZ_WT04)	22:04	90	20:06 (KLZ_WT04)
31	08:25						07:25		07:48 (SWB_WT01_RP)				05:37		06:24 (KLZ_WT01)			
	17:33						20:15	29	19:31 (KLZ_WT05)				21:49	77	19:55 (KLZ_WT04)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		985			667			730			391			1116			2704	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,61			0,56			0,64			0,63			0,59			0,59	
Total reduction		0,15			0,16			0,24			0,28			0,26			0,25	
Total, real		147			110			173			111			294			689	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (SAM_WT10)	06:09			06:57		19:04 (KLZ_WT05)	07:44		18:19 (KLZ_WT20)	07:36		08:16 (SAM_WT06)	08:26		08:57 (SAM_WT04)
	22:04	92 20:06 (KLZ_WT04)	21:34			20:33	20	19:24 (KLZ_WT05)	19:25	35	18:58 (KLZ_WT12)	17:21	28	08:44 (SAM_WT06)	16:42	34	12:54 (KLZ_WT23)
2	05:34	06:04 (SAM_WT10)	06:10			06:59		19:01 (KLZ_WT05)	07:46		08:14 (SAM_WT08)	07:38		08:17 (SAM_WT06)	08:27		08:59 (SAM_WT04)
	22:04	90 20:05 (KLZ_WT04)	21:32			20:31	23	19:24 (KLZ_WT05)	19:23	43	18:56 (KLZ_WT12)	17:19	27	08:44 (SAM_WT06)	16:41	35	12:56 (KLZ_WT23)
3	05:35	06:05 (SAM_WT10)	06:12			07:00		07:26 (SAM_WT02)	07:48		08:12 (SAM_WT08)	07:40		08:17 (SAM_WT06)	08:29		09:00 (SAM_WT04)
	22:04	90 20:06 (KLZ_WT04)	21:30			20:29	32	19:26 (KLZ_WT05)	19:21	43	18:54 (KLZ_WT12)	17:17	25	08:42 (SAM_WT06)	16:41	43	12:57 (KLZ_WT23)
4	05:36	06:06 (SAM_WT10)	06:13			07:02		07:27 (SAM_WT02)	07:49		08:14 (SAM_WT08)	07:42		08:19 (SAM_WT06)	08:30		09:02 (SAM_WT04)
	22:03	88 20:06 (KLZ_WT04)	21:29			20:27	31	19:25 (KLZ_WT05)	19:19	41	18:46 (KLZ_WT06)	17:16	22	08:41 (SAM_WT06)	16:40	47	12:59 (KLZ_WT23)
5	05:37	06:06 (SAM_WT10)	06:15			07:03		07:29 (SAM_WT02)	07:51		08:16 (SAM_WT08)	07:43		08:21 (SAM_WT06)	08:31		09:03 (SAM_WT04)
	22:03	83 20:05 (KLZ_WT04)	21:27			20:24	32	19:26 (KLZ_WT05)	19:16	39	18:45 (KLZ_WT06)	17:14	18	08:39 (SAM_WT06)	16:40	49	12:59 (KLZ_WT23)
6	05:37	06:07 (SAM_WT10)	06:16		06:44 (SAM_WT09)	07:05		07:30 (SAM_WT02)	07:52		08:17 (SAM_WT08)	07:45		08:23 (SAM_WT06)	08:33		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:25	4	06:48 (SAM_WT09)	20:22	31	19:26 (KLZ_WT05)	19:14	36	18:43 (KLZ_WT06)	17:12	14	08:37 (SAM_WT06)	16:39	51	13:00 (KLZ_WT23)
7	05:38	06:08 (SAM_WT10)	06:18		06:46 (SAM_WT09)	07:06		18:57 (KLZ_WT05)	07:54		08:19 (SAM_WT08)	07:47		08:27 (SAM_WT06)	08:34		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:24	3	06:49 (SAM_WT09)	20:20	29	19:26 (KLZ_WT05)	19:12	34	18:43 (KLZ_WT20)	17:11	6	08:33 (SAM_WT06)	16:39	59	14:57 (KLZ_WT21)
8	05:39	06:09 (SAM_WT10)	06:19		06:47 (SAM_WT09)	07:08		18:55 (KLZ_WT05)	07:56		08:21 (SAM_WT08)	07:49			08:35		09:59 (SAM_WT07)
	22:01	81 20:05 (KLZ_WT04)	21:22	3	06:50 (SAM_WT09)	20:18	30	19:25 (KLZ_WT05)	19:10	32	18:43 (KLZ_WT20)	17:09			16:39	64	15:00 (KLZ_WT21)
9	05:40	06:10 (SAM_WT10)	06:21		06:48 (SAM_WT09)	07:10		18:56 (KLZ_WT05)	07:57		18:12 (KLZ_WT20)	07:50			08:36		09:58 (SAM_WT07)
	22:00	80 20:05 (KLZ_WT04)	21:20	1	06:49 (SAM_WT09)	20:15	29	19:25 (KLZ_WT05)	19:08	28	18:40 (EVE_WT02)	17:07			16:38	69	15:01 (KLZ_WT21)
10	05:41	06:11 (SAM_WT10)	06:23			07:11		07:36 (SWB_WT01_RP)	07:59		18:13 (KLZ_WT20)	07:52			08:37		09:58 (SAM_WT07)
	22:00	79 20:05 (KLZ_WT04)	21:18			20:13	32	19:24 (KLZ_WT05)	19:05	25	18:38 (EVE_WT02)	17:06			16:38	74	15:03 (KLZ_WT21)
11	05:42	06:32 (KLZ_WT01)	06:24			07:13		07:38 (SWB_WT01_RP)	08:01		18:13 (KLZ_WT20)	07:54			08:38		09:58 (SAM_WT07)
	21:59	78 20:04 (KLZ_WT04)	21:16			20:11	31	19:23 (KLZ_WT05)	19:03	23	18:36 (KLZ_WT13)	17:04			16:38	77	15:04 (KLZ_WT21)
12	05:43	06:32 (KLZ_WT01)	06:26			07:14		07:39 (SWB_WT01_RP)	08:02		18:13 (KLZ_WT20)	07:56			08:39		09:58 (SAM_WT07)
	21:58	78 20:04 (KLZ_WT04)	21:14			20:09	29	19:22 (KLZ_WT05)	19:01	20	18:33 (KLZ_WT13)	17:03			16:38	79	15:05 (KLZ_WT21)
13	05:44	06:32 (KLZ_WT01)	06:27			07:16		07:41 (SWB_WT01_RP)	08:04		18:14 (KLZ_WT20)	07:57		08:45 (SAM_WT11)	08:40		09:58 (SAM_WT07)
	21:57	78 20:04 (KLZ_WT04)	21:12			20:06	26	19:21 (KLZ_WT05)	18:59	17	18:31 (KLZ_WT13)	17:01	9	08:54 (SAM_WT11)	16:38	82	15:06 (KLZ_WT21)
14	05:45	06:32 (KLZ_WT01)	06:29			07:17		18:56 (KLZ_WT05)	08:06		18:15 (KLZ_WT20)	07:59		08:43 (SAM_WT11)	08:41		09:59 (SAM_WT07)
	21:56	77 20:03 (KLZ_WT04)	21:11			20:04	23	19:19 (KLZ_WT05)	18:57	14	18:29 (KLZ_WT13)	17:00	14	08:57 (SAM_WT11)	16:38	83	15:07 (KLZ_WT21)
15	05:46	06:32 (KLZ_WT01)	06:30			07:19		18:58 (KLZ_WT05)	08:07		09:25 (SAM_WT06)	08:01		08:42 (SAM_WT11)	08:42		09:59 (SAM_WT07)
	21:56	76 20:02 (KLZ_WT04)	21:09			20:02	19	19:17 (KLZ_WT05)	18:55	23	18:27 (KLZ_WT13)	16:58	16	08:58 (SAM_WT11)	16:38	84	15:07 (KLZ_WT21)
16	05:47	06:32 (KLZ_WT01)	06:32			07:21		18:59 (KLZ_WT05)	08:09		09:22 (SAM_WT06)	08:02		08:42 (SAM_WT11)	08:43		09:59 (SAM_WT07)
	21:55	75 20:02 (KLZ_WT04)	21:07			19:59	15	19:14 (KLZ_WT05)	18:52	23	18:24 (KLZ_WT20)	16:57	18	09:00 (SAM_WT11)	16:38	87	15:08 (KLZ_WT21)
17	05:49	06:31 (KLZ_WT01)	06:33			07:22		19:02 (KLZ_WT05)	08:11		09:20 (SAM_WT06)	08:04		08:41 (SAM_WT11)	08:44		10:00 (SAM_WT07)
	21:54	75 20:01 (KLZ_WT04)	21:05			19:57	9	19:11 (KLZ_WT05)	18:50	23	18:22 (KLZ_WT20)	16:56	20	09:01 (SAM_WT11)	16:38	86	15:09 (KLZ_WT21)
18	05:50	06:31 (KLZ_WT01)	06:35			07:24		19:18 (EVE_WT01)	08:12		09:18 (SAM_WT06)	08:06		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:52	73 20:00 (KLZ_WT04)	21:03			19:55	5	19:23 (EVE_WT01)	18:48	25	09:43 (SAM_WT06)	16:55	21	09:01 (SAM_WT11)	16:39	88	15:09 (KLZ_WT21)
19	05:51	06:31 (KLZ_WT01)	06:37		07:03 (SAM_WT01)	07:25		19:16 (EVE_WT01)	08:14		09:17 (SAM_WT06)	08:07		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:51	71 19:59 (KLZ_WT04)	21:01	2	07:05 (SAM_WT01)	19:53	10	19:26 (EVE_WT01)	18:46	28	09:45 (SAM_WT06)	16:53	22	09:02 (SAM_WT11)	16:39	89	15:10 (KLZ_WT21)
20	05:52	06:31 (KLZ_WT01)	06:38		07:05 (SAM_WT01)	07:27		19:15 (EVE_WT01)	08:16		09:16 (SAM_WT06)	08:09		08:40 (SAM_WT11)	08:46		10:01 (SAM_WT07)
	21:50	70 19:58 (KLZ_WT04)	20:59	2	07:07 (SAM_WT01)	19:50	9	19:24 (EVE_WT01)	18:44	30	09:46 (SAM_WT06)	16:52	23	09:03 (SAM_WT11)	16:39	88	15:11 (KLZ_WT21)
21	05:54	06:32 (KLZ_WT01)	06:40		07:06 (SAM_WT01)	07:28		19:13 (EVE_WT01)	08:17		09:15 (SAM_WT06)	08:11		08:41 (SAM_WT11)	08:47		10:01 (SAM_WT07)
	21:49	68 19:58 (KLZ_WT04)	20:57	1	07:07 (SAM_WT01)	19:48	8	19:21 (EVE_WT01)	18:42	31	09:46 (SAM_WT06)	16:51	22	09:03 (SAM_WT11)	16:40	88	15:11 (KLZ_WT21)
22	05:55	06:32 (KLZ_WT01)	06:41			07:30		19:13 (EVE_WT01)	08:19		09:14 (SAM_WT06)	08:12		08:43 (SAM_WT11)	08:47		10:02 (SAM_WT07)
	21:48	65 19:57 (KLZ_WT04)	20:55			19:46	7	19:20 (EVE_WT01)	18:40	32	09:46 (SAM_WT06)	16:50	21	09:04 (SAM_WT11)	16:40	88	15:12 (KLZ_WT21)
23	05:56	06:32 (KLZ_WT01)	06:43			07:32		19:12 (EVE_WT01)	08:21		09:14 (SAM_WT06)	08:14		08:44 (SAM_WT11)	08:48		10:02 (SAM_WT07)
	21:47	62 19:55 (KLZ_WT04)	20:52			19:43	5	19:17 (EVE_WT01)	18:38	33	09:47 (SAM_WT06)	16:49	19	09:03 (SAM_WT11)	16:41	88	15:12 (KLZ_WT21)
24	05:58	06:33 (KLZ_WT01)	06:44			07:33		18:59 (KLZ_WT12)	08:23		09:14 (SAM_WT06)	08:16		08:46 (SAM_WT04)	08:48		10:02 (SAM_WT07)
	21:45	58 19:54 (KLZ_WT04)	20:50			19:41	7	19:15 (EVE_WT01)	18:36	33	09:47 (SAM_WT06)	16:48	18	09:04 (SAM_WT11)	16:41	88	15:12 (KLZ_WT21)
25	05:59	06:34 (KLZ_WT01)	06:46		07:16 (SAM_WT03)	07:35		18:56 (KLZ_WT12)	07:24		08:14 (SAM_WT06)	08:17		08:48 (SAM_WT04)	08:48		10:04 (SAM_WT07)
	21:44	55 19:53 (KLZ_WT04)	20:48	5	07:21 (SAM_WT03)	19:39	10	19:06 (KLZ_WT12)	17:34	33	08:47 (SAM_WT06)	16:47	17	09:05 (SAM_WT11)	16:42	88	15:13 (KLZ_WT21)
26	06:00	06:34 (KLZ_WT01)	06:48		07:14 (SAM_WT03)	07:36		18:39 (KLZ_WT06)	07:26		08:14 (SAM_WT06)	08:19		08:49 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:43	51 19:51 (KLZ_WT04)	20:46	9	07:23 (SAM_WT03)	19:37	18	19:07 (KLZ_WT12)	17:32	33	08:47 (SAM_WT06)	16:46	15	09:04 (SAM_WT11)	16:43	86	15:13 (KLZ_WT21)
27	06:02	06:35 (KLZ_WT01)	06:49		07:15 (SAM_WT03)	07:38		18:36 (KLZ_WT06)	07:28		08:13 (SAM_WT06)	08:20		08:51 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:41	45 19:49 (KLZ_WT04)	20:44	8	07:23 (SAM_WT03)	19:34	26	19:08 (KLZ_WT12)	17:30	33	08:46 (SAM_WT06)	16:45	27	12:46 (KLZ_WT23)	16:43	87	15:13 (KLZ_WT21)
28	06:03	06:37 (KLZ_WT01)	06:51		07:17 (SAM_WT03)	07:40		18:27 (KLZ_WT20)	07:30		08:13 (SAM_WT06)	08:22		08:53 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:40	37 19:47 (KLZ_WT04)	20:42	6	07:23 (SAM_WT03)	19:32	33	19:05 (KLZ_WT12)	17:28	33	08:46 (SAM_WT06)	16:44	30	12:49 (KLZ_WT23)	16:44	84	15:13 (KLZ_WT21)
29	06:05	06:38 (KLZ_WT01)	06:52		07:18 (SAM_WT03)	07:41		18:23 (KLZ_WT20)	07:31		08:14 (SAM_WT06)	08:23		08:54 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:38	28 19:44 (KLZ_WT04)	20:40	5	07:23 (SAM_WT03)	19:30	36	19:03 (KLZ_WT12)	17:26	32	08:46 (SAM_WT06)	16:43	33	12:51 (KLZ_WT23)	16:45	83	15:13 (KLZ_WT21)
30	06:06	19:28 (KLZ_WT04)	06:54		07:20 (SAM_WT03)	07:43		18:20 (KLZ_WT20)	07:33		08:14 (SAM_WT06)	08:25		08:56 (SAM_WT04)	08:50		10:06 (SAM_WT07)
	21:37	10 19:38 (KLZ_WT04)	20:38	14	19:21 (KLZ_WT05)	19:28	37	19:00 (KLZ_WT12)	17:25	32	08:46 (SAM_WT06)	16:43	34	12:53 (KLZ_WT23)	16:46	82	15:14 (KLZ_WT21)
31	06:07		06:55		19:05 (KLZ_WT05)				07:35		08:15 (SAM_WT06)				08:50		10:07 (SAM_WT07)
	21:35		20:35	17	19:22 (KLZ_WT05)				17:23	30	08:45 (SAM_WT06)				16:47	79	15:14 (KLZ_WT21)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		2077		80			652			937			519			2309	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98		0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,59		0,64			0,63			0,60			0,56			0,66	
Total reduction		0,26		0,29			0,27			0,21			0,15			0,14	
Total, real		533		23			174			198			76			334	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	124	15:47 (KLZ_WT22)	17:35	97	11:58 (KLZ_WT23)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	123	15:47 (KLZ_WT22)	17:36	98	11:58 (KLZ_WT23)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	121	15:47 (KLZ_WT22)	17:38	99	11:58 (KLZ_WT23)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	120	15:46 (KLZ_WT22)	17:40	98	11:58 (KLZ_WT23)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	118	15:46 (KLZ_WT22)	17:42	100	11:58 (KLZ_WT23)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	111	15:13 (KLZ_WT21)	17:44	102	11:57 (KLZ_WT23)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	111	15:14 (KLZ_WT21)	17:45	104	11:57 (KLZ_WT23)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	110	15:13 (KLZ_WT21)	17:47	104	11:57 (KLZ_WT23)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	110	15:14 (KLZ_WT21)	17:49	105	11:56 (KLZ_WT23)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	108	15:14 (KLZ_WT21)	17:51	104	11:56 (KLZ_WT23)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	104	15:14 (KLZ_WT21)	17:53	103	11:55 (KLZ_WT23)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46		10:49 (KLZ_WT23)	08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02	99	15:14 (KLZ_WT21)	17:54	100	11:54 (KLZ_WT23)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45		10:49 (KLZ_WT23)	08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03	99	15:14 (KLZ_WT21)	17:56	97	11:53 (KLZ_WT23)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44		10:49 (KLZ_WT23)	08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05	99	15:14 (KLZ_WT21)	17:58	91	11:51 (KLZ_WT23)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44		10:49 (KLZ_WT23)	08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06	99	15:14 (KLZ_WT21)	18:00	84	11:50 (KLZ_WT23)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43		10:49 (KLZ_WT23)	07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08	98	15:13 (KLZ_WT21)	18:02	76	11:49 (KLZ_WT23)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42		10:49 (KLZ_WT23)	07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09	96	15:13 (KLZ_WT21)	18:03	69	11:47 (KLZ_WT23)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41		10:49 (KLZ_WT23)	07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11	96	15:13 (KLZ_WT21)	18:05	65	11:45 (KLZ_WT23)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40		10:49 (KLZ_WT23)	07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12	94	15:12 (KLZ_WT21)	18:07	58	11:42 (KLZ_WT23)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39		10:49 (KLZ_WT23)	07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14	93	15:11 (KLZ_WT21)	18:09	52	11:40 (KLZ_WT23)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38		10:48 (KLZ_WT23)	07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16	91	15:09 (KLZ_WT21)	18:11	41	11:36 (KLZ_WT23)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37		10:48 (KLZ_WT23)	07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17	87	15:08 (KLZ_WT21)	18:12	26	11:31 (KLZ_WT23)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	91	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	91	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	86	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	88	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	91	11:57 (KLZ_WT23)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	91	11:57 (KLZ_WT23)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	94	11:57 (KLZ_WT23)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	95	11:58 (KLZ_WT23)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	97	11:58 (KLZ_WT23)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		3135			1873			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,63			0,58			0,60			0,60			0,57			0,71	
Total reduction		0,15			0,17			0,22			0,27			0,25			0,31	
Total, real		479			320			171			277			39			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	06:10 (KLZ_WT01)	21:34	1	06:38 (SAM_WT09)	20:33	53	20:03 (EVE_WT01)	19:25	22	18:58 (KLZ_WT13)	17:21	104	11:25 (KLZ_WT23)	16:42	105	14:56 (KLZ_WT21)
2	05:34	06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:32			20:31	54	20:03 (EVE_WT01)	19:23	15	08:32 (SAM_WT06)	17:19	103	11:26 (KLZ_WT23)	16:41	107	14:57 (KLZ_WT21)
3	05:35	06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:30			20:29	57	20:03 (EVE_WT01)	19:21	9	08:28 (SAM_WT06)	17:17	104	11:26 (KLZ_WT23)	16:41	108	14:57 (KLZ_WT21)
4	05:36	06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	06:09 (KLZ_WT01)	21:29	4	20:11 (KLZ_WT06)	20:27	54	20:00 (EVE_WT01)	19:19			17:16	104	11:27 (KLZ_WT23)	16:40	110	14:58 (KLZ_WT21)
5	05:37	06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	06:07 (KLZ_WT01)	21:27	11	20:15 (KLZ_WT06)	20:24	51	19:58 (EVE_WT01)	19:16			17:14	103	11:27 (KLZ_WT23)	16:40	112	14:59 (KLZ_WT21)
6	05:37		06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02		21:25	15	20:16 (KLZ_WT06)	20:22	50	19:55 (EVE_WT01)	19:14			17:12	100	11:28 (KLZ_WT23)	16:39	111	14:59 (KLZ_WT21)
7	05:38		06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02		21:24	18	20:18 (KLZ_WT06)	20:20	49	19:54 (EVE_WT01)	19:12			17:11	98	11:28 (KLZ_WT23)	16:39	116	15:32 (KLZ_WT22)
8	05:39		06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01		21:22	20	20:19 (KLZ_WT06)	20:18	47	19:51 (EVE_WT01)	19:10			17:09	98	11:28 (KLZ_WT23)	16:39	120	15:34 (KLZ_WT22)
9	05:40		06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00		21:20	22	20:19 (KLZ_WT06)	20:15	44	19:49 (KLZ_WT12)	19:08			17:07	98	11:29 (KLZ_WT23)	16:38	122	15:35 (KLZ_WT22)
10	05:41		06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00		21:18	23	20:20 (KLZ_WT06)	20:13	42	19:46 (KLZ_WT12)	19:05			17:06	98	11:29 (KLZ_WT23)	16:38	122	15:36 (KLZ_WT22)
11	05:42		06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59		21:16	25	20:20 (KLZ_WT06)	20:11	39	19:43 (KLZ_WT20)	19:03			17:04	96	11:29 (KLZ_WT23)	16:38	124	15:37 (KLZ_WT22)
12	05:43		06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58		21:14	26	20:21 (KLZ_WT06)	20:09	38	19:42 (KLZ_WT20)	19:01			17:03	95	11:29 (KLZ_WT23)	16:38	124	15:38 (KLZ_WT22)
13	05:44		06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57		21:12	26	20:20 (KLZ_WT06)	20:06	35	19:40 (KLZ_WT20)	18:59			17:01	94	11:29 (KLZ_WT23)	16:38	127	15:39 (KLZ_WT22)
14	05:45		06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56		21:11	27	20:21 (KLZ_WT06)	20:04	33	19:37 (KLZ_WT20)	18:57			17:00	91	11:29 (KLZ_WT23)	16:38	126	15:40 (KLZ_WT22)
15	05:46		06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56		21:09	26	20:20 (KLZ_WT06)	20:02	38	19:35 (KLZ_WT20)	18:55			16:58	90	11:29 (KLZ_WT23)	16:38	125	15:40 (KLZ_WT22)
16	05:48		06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55		21:07	31	20:20 (KLZ_WT06)	19:59	42	19:33 (KLZ_WT20)	18:52			16:57	89	16:26 (KLZ_WT15)	16:38	127	15:41 (KLZ_WT22)
17	05:49		06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54		21:05	31	20:19 (KLZ_WT06)	19:57	43	19:31 (KLZ_WT20)	18:50			16:56	86	16:25 (KLZ_WT15)	16:38	125	15:42 (KLZ_WT22)
18	05:50		06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52		21:03	30	20:19 (KLZ_WT06)	19:55	42	19:28 (KLZ_WT20)	18:48			16:55	91	16:23 (KLZ_WT15)	16:39	126	15:42 (KLZ_WT22)
19	05:51		06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14		11:47 (KLZ_WT23)	08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51		21:01	27	20:18 (KLZ_WT06)	19:53	47	19:26 (KLZ_WT20)	18:46	10	11:57 (KLZ_WT23)	16:53	91	16:22 (KLZ_WT15)	16:39	126	15:43 (KLZ_WT22)
20	05:52		06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09		10:23 (KLZ_WT23)	08:46		09:20 (SAM_WT05)
	21:50		20:59	24	20:18 (KLZ_WT06)	19:50	46	19:24 (KLZ_WT20)	18:44	31	12:04 (KLZ_WT23)	16:52	87	14:43 (KLZ_WT21)	16:39	126	15:44 (KLZ_WT22)
21	05:54		06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11		10:24 (KLZ_WT23)	08:47		09:20 (SAM_WT05)
	21:49		20:57	21	20:16 (KLZ_WT06)	19:48	34	08:41 (SAM_WT06)	18:42	44	12:08 (KLZ_WT23)	16:51	91	14:45 (KLZ_WT21)	16:40	126	15:44 (KLZ_WT22)
22	05:55		06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12		10:25 (KLZ_WT23)	08:47		09:21 (SAM_WT05)
	21:48		20:55	18	20:14 (KLZ_WT06)	19:46	35	08:42 (SAM_WT06)	18:40	54	12:11 (KLZ_WT23)	16:50	93	14:47 (KLZ_WT21)	16:40	126	15:45 (KLZ_WT22)
23	05:56		06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14		10:25 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:47		20:52	15	20:12 (KLZ_WT06)	19:44	39	19:08 (KLZ_WT13)	18:38	61	12:14 (KLZ_WT23)	16:49	94	14:48 (KLZ_WT21)	16:41	126	15:45 (KLZ_WT22)
24	05:58		06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16		10:26 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:45		20:50	10	20:10 (KLZ_WT06)	19:41	40	19:10 (KLZ_WT13)	18:36	66	12:16 (KLZ_WT23)	16:48	96	14:50 (KLZ_WT21)	16:41	126	15:45 (KLZ_WT22)
25	05:59		06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17		10:27 (KLZ_WT23)	08:48		09:22 (SAM_WT05)
	21:44		20:48	5	19:31 (KLZ_WT20)	19:39	43	19:11 (KLZ_WT13)	17:34	69	11:18 (KLZ_WT23)	16:47	97	14:51 (KLZ_WT21)	16:42	125	15:46 (KLZ_WT22)
26	06:00		06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19		10:27 (KLZ_WT23)	08:49		09:22 (SAM_WT05)
	21:43		20:46	17	19:37 (KLZ_WT20)	19:37	42	19:10 (KLZ_WT13)	17:32	77	11:19 (KLZ_WT23)	16:46	97	14:51 (KLZ_WT21)	16:43	125	15:46 (KLZ_WT22)
27	06:02		06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20		10:28 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:41		20:44	22	19:39 (KLZ_WT20)	19:34	40	19:08 (KLZ_WT13)	17:30	85	11:20 (KLZ_WT23)	16:45	99	14:53 (KLZ_WT21)	16:43	126	15:46 (KLZ_WT22)
28	06:03		06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:40		20:42	25	19:42 (KLZ_WT20)	19:32	36	19:05 (KLZ_WT13)	17:28	92	11:21 (KLZ_WT23)	16:44	98	14:54 (KLZ_WT21)	16:44	125	15:46 (KLZ_WT22)
29	06:05		06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:38		20:40	33	19:56 (KLZ_WT12)	19:30	33	19:03 (KLZ_WT13)	17:26	98	11:23 (KLZ_WT23)	16:43	99	14:54 (KLZ_WT21)	16:45	127	15:47 (KLZ_WT22)
30	06:06		06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25		10:30 (KLZ_WT23)	08:50		09:24 (SAM_WT05)
	21:37		20:38	42	19:59 (KLZ_WT12)	19:28	28	19:00 (KLZ_WT13)	17:25	102	11:24 (KLZ_WT23)	16:43	99	14:55 (KLZ_WT21)	16:46	126	15:47 (KLZ_WT22)
31	06:08	06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	1 06:37 (SAM_WT09)	20:35	49	20:01 (EVE_WT01)				17:23	103	11:25 (KLZ_WT23)				16:47	124	15:47 (KLZ_WT22)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		20		644			1274			938			2883			3771	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98		0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71		0,58			0,61			0,58			0,61			0,65	
Total reduction		0,31		0,27			0,26			0,21			0,16			0,14	
Total, real		6		171			327			194			457			538	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

January			February			March			April			May			June		
1	08:50	11:31 (KLZ_WT19)	08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		17:25 (KLZ_WT21)	05:36		06:27 (SAM_WT06)
	16:48	48 12:19 (KLZ_WT19)	17:35	61	17:05 (KLZ_WT16)	18:25			20:17	73	18:52 (KLZ_WT21)	21:06	113	20:38 (KLZ_WT13)	21:50	124	21:13 (EVE_WT01)
2	08:49	11:31 (KLZ_WT19)	08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		17:25 (KLZ_WT21)	05:36		06:28 (SAM_WT06)
	16:49	48 12:19 (KLZ_WT19)	17:36	62	17:07 (KLZ_WT16)	18:26			20:19	75	18:54 (KLZ_WT21)	21:08	116	20:40 (KLZ_WT13)	21:52	120	21:13 (EVE_WT01)
3	08:49	11:31 (KLZ_WT19)	08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		17:25 (KLZ_WT21)	05:35		06:28 (SAM_WT06)
	16:50	48 12:19 (KLZ_WT19)	17:38	61	17:07 (KLZ_WT16)	18:28			20:20	80	18:57 (KLZ_WT21)	21:09	118	20:41 (KLZ_WT13)	21:53	114	19:14 (KLZ_WT21)
4	08:49	11:32 (KLZ_WT19)	08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		17:26 (KLZ_WT21)	05:34		06:29 (SAM_WT06)
	16:51	47 12:19 (KLZ_WT19)	17:40	60	16:58 (KLZ_WT22)	18:30			20:22	89	18:59 (KLZ_WT21)	21:11	119	20:43 (KLZ_WT13)	21:54	111	19:13 (KLZ_WT21)
5	08:49	11:34 (KLZ_WT19)	08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		17:25 (KLZ_WT21)	05:33		06:30 (SAM_WT06)
	16:52	45 12:19 (KLZ_WT19)	17:42	58	16:57 (KLZ_WT22)	18:32			20:24	96	19:01 (KLZ_WT21)	21:13	121	20:44 (KLZ_WT13)	21:55	110	19:14 (KLZ_WT21)
6	08:49	11:34 (KLZ_WT19)	08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		17:25 (KLZ_WT21)	05:33		06:30 (SAM_WT06)
	16:54	45 12:19 (KLZ_WT19)	17:44	56	16:57 (KLZ_WT22)	18:33			20:25	102	19:01 (KLZ_WT21)	21:14	122	20:45 (KLZ_WT13)	21:56	108	19:13 (KLZ_WT21)
7	08:48	11:35 (KLZ_WT19)	08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		17:26 (KLZ_WT21)	05:32		06:31 (SAM_WT06)
	16:55	44 12:19 (KLZ_WT19)	17:45	54	16:57 (KLZ_WT22)	18:35			20:27	107	19:03 (KLZ_WT21)	21:16	123	20:47 (KLZ_WT13)	21:56	108	19:14 (KLZ_WT21)
8	08:48	11:36 (KLZ_WT19)	08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		17:26 (KLZ_WT21)	05:32		06:31 (SAM_WT06)
	16:56	43 12:19 (KLZ_WT19)	17:47	51	16:57 (KLZ_WT22)	18:37			20:29	113	19:05 (KLZ_WT21)	21:17	124	20:48 (KLZ_WT13)	21:57	106	19:13 (KLZ_WT21)
9	08:47	11:37 (KLZ_WT19)	08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58	42 12:19 (KLZ_WT19)	17:49	47	16:57 (KLZ_WT22)	18:39			20:30	116	19:06 (KLZ_WT21)	21:19	134	20:49 (KLZ_WT13)	21:58	103	19:14 (KLZ_WT21)
10	08:47	11:38 (KLZ_WT19)	08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59	41 12:19 (KLZ_WT19)	17:51	42	16:56 (KLZ_WT22)	18:40			20:32	119	19:07 (KLZ_WT21)	21:21	136	20:48 (KLZ_WT13)	21:59	101	19:14 (KLZ_WT21)
11	08:46	09:31 (CBR_WT01)	08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	43 12:18 (KLZ_WT19)	17:53	36	16:55 (KLZ_WT22)	18:42			20:33	121	19:08 (KLZ_WT21)	21:22	134	20:47 (KLZ_WT13)	22:00	99	19:14 (KLZ_WT21)
12	08:46	09:28 (CBR_WT01)	08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	47 12:17 (KLZ_WT19)	17:54	27	16:54 (KLZ_WT22)	18:44			20:35	124	19:08 (KLZ_WT21)	21:24	135	20:45 (KLZ_WT13)	22:00	99	19:14 (KLZ_WT21)
13	08:45	09:27 (CBR_WT01)	08:04		16:38 (KLZ_WT22)	07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	50 12:18 (KLZ_WT19)	17:56	14	16:52 (KLZ_WT22)	18:45	1	07:29 (SAM_WT04)	20:37	127	19:09 (KLZ_WT21)	21:25	129	19:16 (KLZ_WT21)	22:01	96	19:14 (KLZ_WT21)
14	08:44	09:26 (CBR_WT01)	08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	51 12:17 (KLZ_WT19)	17:58	12	16:49 (KLZ_WT22)	18:47	4	07:30 (SAM_WT04)	20:38	129	19:10 (KLZ_WT21)	21:27	130	19:15 (KLZ_WT21)	22:01	94	19:14 (KLZ_WT21)
15	08:44	09:25 (CBR_WT01)	08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	50 12:16 (KLZ_WT19)	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	130	19:11 (KLZ_WT21)	21:28	131	19:16 (KLZ_WT21)	22:02	91	19:14 (KLZ_WT21)
16	08:43	09:24 (CBR_WT01)	07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		17:46 (KLZ_WT21)
	17:08	51 12:15 (KLZ_WT19)	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	134	19:12 (KLZ_WT21)	21:30	131	19:16 (KLZ_WT21)	22:03	88	19:14 (KLZ_WT21)
17	08:42	09:23 (CBR_WT01)	07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:09	49 12:13 (KLZ_WT19)	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	135	19:12 (KLZ_WT21)	21:31	131	19:15 (KLZ_WT21)	22:03	88	19:15 (KLZ_WT21)
18	08:41	09:23 (CBR_WT01)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:11	45 12:11 (KLZ_WT19)	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	136	19:13 (KLZ_WT21)	21:33	132	21:03 (EVE_WT01)	22:03	88	19:15 (KLZ_WT21)
19	08:40	09:22 (CBR_WT01)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:12	42 12:08 (KLZ_WT19)	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	139	20:20 (EVE_WT02)	21:34	132	21:04 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
20	08:39	09:22 (CBR_WT01)	07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		17:47 (KLZ_WT21)
	17:14	29 09:51 (CBR_WT01)	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	140	20:22 (EVE_WT02)	21:35	135	21:06 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
21	08:38	09:21 (CBR_WT01)	07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		17:47 (KLZ_WT21)
	17:16	30 09:51 (CBR_WT01)	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	133	20:23 (EVE_WT02)	21:37	137	21:06 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
22	08:37	09:21 (CBR_WT01)	07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:17	31 09:52 (CBR_WT01)	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	134	20:25 (EVE_WT02)	21:38	138	21:07 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
23	08:36	09:21 (CBR_WT01)	07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:19	32 09:53 (CBR_WT01)	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	130	20:26 (EVE_WT02)	21:39	138	21:09 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
24	08:35	09:20 (CBR_WT01)	07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:21	33 09:53 (CBR_WT01)	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	121	20:28 (EVE_WT02)	21:41	137	21:10 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
25	08:34	09:20 (CBR_WT01)	07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		17:26 (KLZ_WT21)	05:43		06:24 (SAM_WT06)	05:31		17:49 (KLZ_WT21)
	17:22	43 16:46 (KLZ_WT22)	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	121	20:29 (EVE_WT02)	21:42	136	21:11 (EVE_WT01)	22:05	88	19:17 (KLZ_WT21)
26	08:32	09:21 (CBR_WT01)	07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		17:26 (KLZ_WT21)	05:42		06:24 (SAM_WT06)	05:31		17:48 (KLZ_WT21)
	17:24	47 16:49 (KLZ_WT22)	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	118	20:27 (EVE_WT02)	21:43	135	21:12 (EVE_WT01)	22:05	89	19:17 (KLZ_WT21)
27	08:31	09:20 (CBR_WT01)	07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		17:26 (KLZ_WT21)	05:41		06:25 (SAM_WT06)	05:32		17:48 (KLZ_WT21)
	17:26	51 16:50 (KLZ_WT22)	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	112	20:24 (EVE_WT02)	21:45	135	21:13 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
28	08:30	09:21 (CBR_WT01)	07:34			06:32		06:54 (SAM_WT11)	06:26		17:25 (KLZ_WT21)	05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	53 16:52 (KLZ_WT22)	18:23			19:10	25	17:32 (KLZ_WT21)	21:01	110	19:15 (KLZ_WT21)	21:46	134	21:14 (EVE_WT01)	22:05	92	19:17 (KLZ_WT21)
29	08:28	09:20 (CBR_WT01)				07:30		07:52 (SAM_WT11)	06:24		17:26 (KLZ_WT21)	05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	56 16:53 (KLZ_WT22)				20:12	45	18:41 (KLZ_WT21)	21:03	110	19:16 (KLZ_WT21)	21:47	134	21:16 (EVE_WT01)	22:05	95	19:17 (KLZ_WT21)
30	08:27	09:21 (CBR_WT01)				07:28		07:50 (SAM_WT11)	06:22		17:26 (KLZ_WT21)	05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	58 16:55 (KLZ_WT22)				20:14	58	18:46 (KLZ_WT21)	21:05	110	19:16 (KLZ_WT21)	21:48	131	21:15 (EVE_WT01)	22:04	98	19:18 (KLZ_WT21)
31	08:25	09:21 (CBR_WT01)				07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	61 17:03 (KLZ_WT16)				20:15	67	18:50 (KLZ_WT21)				21:49	127	21:14 (EVE_WT01)			
Potential sun hours	262		279			367			415			482			495		
Total, worst case		1403		872			325			3484			4028			2926	
Sun reduction		0,25		0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98		0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,59		0,61			0,62			0,63			0,64			0,64	
Total reduction		0,14		0,18			0,23			0,29			0,28			0,28	
Total, real		202		155			74			993			1142			805	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	99	19:18 (KLZ_WT21)	21:34	134	20:56 (KLZ_WT13)	20:33	121	19:07 (KLZ_WT21)	19:25			17:21	45	16:26 (KLZ_WT22)	16:42	43	12:00 (KLZ_WT19)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		11:21 (KLZ_WT19)
	22:04	101	19:18 (KLZ_WT21)	21:32	135	20:58 (KLZ_WT13)	20:31	119	19:05 (KLZ_WT21)	19:23			17:19	48	16:27 (KLZ_WT22)	16:41	41	12:02 (KLZ_WT19)
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		11:20 (KLZ_WT19)
	22:04	103	19:19 (KLZ_WT21)	21:30	136	20:59 (KLZ_WT13)	20:29	116	19:04 (KLZ_WT21)	19:21			17:17	52	16:26 (KLZ_WT22)	16:41	42	12:02 (KLZ_WT19)
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		11:21 (KLZ_WT19)
	22:03	105	19:19 (KLZ_WT21)	21:29	132	20:59 (KLZ_WT13)	20:27	113	19:02 (KLZ_WT21)	19:19			17:16	55	16:27 (KLZ_WT22)	16:40	43	12:04 (KLZ_WT19)
5	05:37		06:37 (SAM_WT06)	06:15		17:36 (KLZ_WT21)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		11:20 (KLZ_WT19)
	22:03	106	19:19 (KLZ_WT21)	21:27	123	20:58 (KLZ_WT13)	20:24	107	19:00 (KLZ_WT21)	19:16			17:14	56	16:27 (KLZ_WT22)	16:40	44	12:04 (KLZ_WT19)
6	05:37		06:37 (SAM_WT06)	06:17		17:36 (KLZ_WT21)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		11:20 (KLZ_WT19)
	22:02	108	19:20 (KLZ_WT21)	21:25	122	20:56 (KLZ_WT13)	20:22	102	18:58 (KLZ_WT21)	19:14			17:12	58	16:27 (KLZ_WT22)	16:39	45	12:05 (KLZ_WT19)
7	05:38		06:36 (SAM_WT06)	06:18		17:36 (KLZ_WT21)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		11:21 (KLZ_WT19)
	22:02	109	19:20 (KLZ_WT21)	21:23	121	20:55 (KLZ_WT13)	20:20	96	18:56 (KLZ_WT21)	19:12			17:11	59	16:27 (KLZ_WT22)	16:39	46	12:07 (KLZ_WT19)
8	05:39		06:36 (SAM_WT06)	06:20		17:35 (KLZ_WT21)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		11:21 (KLZ_WT19)
	22:01	112	19:21 (KLZ_WT21)	21:22	121	20:53 (KLZ_WT13)	20:18	89	18:53 (KLZ_WT21)	19:10			17:09	62	16:39 (KLZ_WT16)	16:39	46	12:07 (KLZ_WT19)
9	05:40		06:36 (SAM_WT06)	06:21		17:34 (KLZ_WT21)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		11:21 (KLZ_WT19)
	22:00	113	19:21 (KLZ_WT21)	21:20	119	20:51 (KLZ_WT13)	20:15	80	18:51 (KLZ_WT21)	19:08			17:07	64	16:38 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
10	05:41		06:36 (SAM_WT06)	06:23		17:34 (KLZ_WT21)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		11:21 (KLZ_WT19)
	22:00	119	21:20 (EVE_WT01)	21:18	117	20:50 (KLZ_WT13)	20:13	77	18:48 (KLZ_WT21)	19:05			17:06	62	16:36 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
11	05:42		06:36 (SAM_WT06)	06:24		17:34 (KLZ_WT21)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		11:21 (KLZ_WT19)
	21:59	122	21:21 (EVE_WT01)	21:16	114	20:48 (KLZ_WT13)	20:11	73	18:45 (KLZ_WT21)	19:03			17:04	61	16:35 (KLZ_WT16)	16:38	48	12:09 (KLZ_WT19)
12	05:43		06:35 (SAM_WT06)	06:26		17:34 (KLZ_WT21)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		11:21 (KLZ_WT19)
	21:58	125	21:22 (EVE_WT01)	21:14	112	20:46 (KLZ_WT13)	20:09	67	18:41 (KLZ_WT21)	19:01			17:03	57	16:25 (KLZ_WT22)	16:38	48	12:09 (KLZ_WT19)
13	05:44		06:35 (SAM_WT06)	06:27		17:33 (KLZ_WT21)	07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		11:21 (KLZ_WT19)
	21:57	130	21:23 (EVE_WT01)	21:12	111	19:24 (KLZ_WT21)	20:06	59	18:38 (KLZ_WT21)	18:59			17:01	56	16:25 (KLZ_WT22)	16:38	49	12:10 (KLZ_WT19)
14	05:45		06:35 (SAM_WT06)	06:29		17:34 (KLZ_WT21)	07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		11:21 (KLZ_WT19)
	21:56	131	21:24 (EVE_WT01)	21:11	110	19:24 (KLZ_WT21)	20:04	47	18:32 (KLZ_WT21)	18:57	2	08:57 (SAM_WT05)	17:00	54	16:24 (KLZ_WT22)	16:38	50	12:11 (KLZ_WT19)
15	05:46		06:35 (SAM_WT06)	06:30		17:33 (KLZ_WT21)	07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		11:22 (KLZ_WT19)
	21:55	134	21:24 (EVE_WT01)	21:09	110	19:23 (KLZ_WT21)	20:02	30	18:25 (KLZ_WT21)	18:55	11	09:02 (SAM_WT05)	16:59	51	16:23 (KLZ_WT22)	16:38	50	12:12 (KLZ_WT19)
16	05:48		06:34 (SAM_WT06)	06:32		17:33 (KLZ_WT21)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		11:22 (KLZ_WT19)
	21:54	134	21:23 (EVE_WT01)	21:07	115	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	47	16:22 (KLZ_WT22)	16:38	50	12:12 (KLZ_WT19)
17	05:49		06:34 (SAM_WT06)	06:33		17:33 (KLZ_WT21)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		11:23 (KLZ_WT19)
	21:53	136	21:22 (EVE_WT01)	21:05	119	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	43	16:20 (KLZ_WT22)	16:38	50	12:13 (KLZ_WT19)
18	05:50		06:34 (SAM_WT06)	06:35		17:33 (KLZ_WT21)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:52	136	21:21 (EVE_WT01)	21:03	121	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39	50	12:13 (KLZ_WT19)
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:51	138	21:20 (EVE_WT01)	21:01	124	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39	51	12:14 (KLZ_WT19)
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		11:24 (KLZ_WT19)
	21:50	139	21:19 (EVE_WT01)	20:59	131	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39	51	12:15 (KLZ_WT19)
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		11:24 (KLZ_WT19)
	21:49	139	21:19 (EVE_WT01)	20:57	132	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40	51	12:15 (KLZ_WT19)
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		11:25 (KLZ_WT19)
	21:48	138	21:17 (EVE_WT01)	20:55	135	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40	51	12:16 (KLZ_WT19)
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:47	135	21:16 (EVE_WT01)	20:52	141	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	42	11:44 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:45	133	21:14 (EVE_WT01)	20:50	138	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	46	11:48 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		11:27 (KLZ_WT19)
	21:44	134	21:14 (EVE_WT01)	20:48	137	19:16 (KLZ_WT21)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	49	11:51 (KLZ_WT19)	16:42	50	12:17 (KLZ_WT19)
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:43	132	19:26 (KLZ_WT21)	20:46	135	19:15 (KLZ_WT21)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	51	11:53 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:41	132	19:26 (KLZ_WT21)	20:44	134	19:14 (KLZ_WT21)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	51	11:55 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:40	130	19:26 (KLZ_WT21)	20:42	130	19:13 (KLZ_WT21)	19:32	8	08:12 (SAM_WT04)	17:28	12	16:19 (KLZ_WT22)	16:44	51	11:57 (KLZ_WT19)	16:44	49	12:17 (KLZ_WT19)
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31		16:07 (KLZ_WT22)	08:23		09:07 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:38	130	19:26 (KLZ_WT21)	20:40	129	19:11 (KLZ_WT21)	19:30	6	08:12 (SAM_WT04)	17:26	15	16:22 (KLZ_WT22)	16:43	50	11:58 (KLZ_WT19)	16:45	50	12:18 (KLZ_WT19)
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		11:29 (KLZ_WT19)
	21:37	130	19:26 (KLZ_WT21)	20:38	127	19:10 (KLZ_WT21)	19:28	2	08:09 (SAM_WT04)	17:25	29	16:23 (KLZ_WT22)	16:43	47	11:59 (KLZ_WT19)	16:46	49	12:18 (KLZ_WT19)
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		11:30 (KLZ_WT19)
	21:35	130	19:27 (KLZ_WT21)	20:35	125	19:08 (KLZ_WT21)				17:23	38	16:25 (KLZ_WT22)				16:47	48	12:18 (KLZ_WT19)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3863			3890			1432			329			1472			1491	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,63			0,63			0,59			0,59			0,62	
Total reduction		0,28			0,29			0,27			0,21			0,15			0,14	
Total, real		1082			1117			381			69			228			204	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February			March			April			May			June		
1	08:49	08:24			07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48	17:35			18:25	98	17:51 (KLZ_WT10)	20:17	230	18:47 (KLZ_WT19)	21:06	110	20:38 (EVE_WT02)	21:50	47	20:50 (KLZ_WT21)
2	08:49	08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49	17:36			18:26	102	17:51 (KLZ_WT10)	20:19	226	18:46 (KLZ_WT19)	21:08	106	20:40 (EVE_WT02)	21:51	47	20:51 (KLZ_WT21)
3	08:49	08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50	17:38			18:28	104	17:50 (KLZ_WT10)	20:20	221	18:43 (KLZ_WT19)	21:09	102	20:41 (EVE_WT02)	21:53	47	20:50 (KLZ_WT21)
4	08:49	08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51	17:40			18:30	109	17:49 (KLZ_WT10)	20:22	216	18:41 (KLZ_WT19)	21:11	96	16:17 (CBR_WT01)	21:54	49	20:50 (KLZ_WT21)
5	08:49	08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52	17:42			18:32	116	17:46 (KLZ_WT10)	20:24	207	18:37 (KLZ_WT19)	21:13	102	20:41 (KLZ_WT21)	21:55	49	20:50 (KLZ_WT21)
6	08:49	08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54	17:44			18:33	125	17:48 (KLZ_WT19)	20:25	192	16:34 (CBR_WT01)	21:14	101	20:43 (KLZ_WT21)	21:55	49	20:49 (KLZ_WT21)
7	08:48	08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55	17:45			18:35	133	17:51 (KLZ_WT19)	20:27	191	16:34 (CBR_WT01)	21:16	99	20:46 (KLZ_WT21)	21:56	48	20:49 (KLZ_WT21)
8	08:48	08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56	17:47			18:37	145	18:12 (KLZ_WT22)	20:28	189	16:34 (CBR_WT01)	21:17	95	20:47 (KLZ_WT21)	21:57	48	20:48 (KLZ_WT21)
9	08:47	08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57	17:49			18:38	155	18:13 (KLZ_WT22)	20:30	187	16:34 (CBR_WT01)	21:19	91	20:48 (KLZ_WT21)	21:58	48	20:48 (KLZ_WT21)
10	08:47	08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59	17:51			18:40	164	18:15 (KLZ_WT22)	20:32	185	16:34 (CBR_WT01)	21:20	85	20:49 (KLZ_WT21)	21:59	47	20:48 (KLZ_WT21)
11	08:46	08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00	17:53			18:42	171	18:17 (KLZ_WT22)	20:33	182	16:32 (CBR_WT01)	21:22	79	20:50 (KLZ_WT21)	21:59	47	20:47 (KLZ_WT21)
12	08:46	08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02	17:54			18:44	178	18:18 (KLZ_WT22)	20:35	179	16:32 (CBR_WT01)	21:24	71	20:54 (KLZ_WT13)	22:00	47	20:47 (KLZ_WT21)
13	08:45	08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03	17:56			18:45	182	18:17 (KLZ_WT22)	20:37	175	16:32 (CBR_WT01)	21:25	59	20:56 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
14	08:44	08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:05	17:58			18:47	186	18:17 (KLZ_WT22)	20:38	171	16:31 (CBR_WT01)	21:27	33	20:57 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
15	08:44	08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:06	18:00			18:49	195	18:17 (KLZ_WT22)	20:40	167	16:31 (CBR_WT01)	21:28	31	20:51 (KLZ_WT21)	22:02	46	20:47 (KLZ_WT21)
16	08:43	07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55		20:20 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:08	18:02			18:50	210	18:17 (KLZ_WT22)	20:42	161	16:31 (CBR_WT01)	21:30	32	20:52 (KLZ_WT21)	22:02	47	20:47 (KLZ_WT21)
17	08:42	07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:09	18:03			18:52	217	18:15 (KLZ_WT22)	20:43	155	16:30 (CBR_WT01)	21:31	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
18	08:41	07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:11	18:05			18:54	223	18:13 (KLZ_WT22)	20:45	149	16:30 (CBR_WT01)	21:32	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
19	08:40	07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:12	18:07			18:55	223	18:10 (KLZ_WT22)	20:47	139	16:29 (CBR_WT01)	21:34	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
20	08:39	07:51			06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:14	18:09			18:57	221	17:59 (KLZ_WT19)	20:48	130	16:29 (CBR_WT01)	21:35	33	20:53 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
21	08:38	07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48		20:19 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:16	18:11	27	14:48 (CBR_WT01)	18:59	225	17:58 (KLZ_WT19)	20:50	129	16:28 (CBR_WT01)	21:37	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
22	08:37	07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:17	18:12	38	14:53 (CBR_WT01)	19:00	228	17:58 (KLZ_WT19)	20:51	131	16:27 (CBR_WT01)	21:38	33	20:52 (KLZ_WT21)	22:04	45	20:48 (KLZ_WT21)
23	08:36	07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:19	18:14	52	17:46 (KLZ_WT10)	19:02	231	17:58 (KLZ_WT19)	20:53	131	16:27 (CBR_WT01)	21:39	33	20:52 (KLZ_WT21)	22:05	45	20:48 (KLZ_WT21)
24	08:35	07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21	18:16	66	17:50 (KLZ_WT08)	19:04	233	17:56 (KLZ_WT19)	20:55	130	16:26 (CBR_WT01)	21:41	34	21:10 (EVE_WT01)	22:05	46	20:48 (KLZ_WT21)
25	08:33	07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22	18:18	76	17:52 (KLZ_WT08)	19:05	235	17:56 (KLZ_WT19)	20:56	129	16:25 (CBR_WT01)	21:42	35	21:11 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
26	08:32	07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24	18:19	85	17:54 (KLZ_WT08)	19:07	236	17:55 (KLZ_WT19)	20:58	126	16:24 (CBR_WT01)	21:43	39	21:12 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
27	08:31	07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26	18:21	93	17:55 (KLZ_WT08)	19:09	237	17:55 (KLZ_WT19)	21:00	123	16:23 (CBR_WT01)	21:45	40	21:13 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
28	08:30	07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28	18:23	97	17:54 (KLZ_WT08)	19:10	236	17:53 (KLZ_WT19)	21:01	119	16:22 (CBR_WT01)	21:46	42	20:51 (KLZ_WT21)	22:05	47	20:50 (KLZ_WT21)
29	08:28				07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29				20:12	234	18:52 (KLZ_WT19)	21:03	116	16:22 (CBR_WT01)	21:47	44	20:51 (KLZ_WT21)	22:05	46	20:50 (KLZ_WT21)
30	08:27				07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31				20:14	235	18:51 (KLZ_WT19)	21:05	112	16:21 (CBR_WT01)	21:48	44	20:51 (KLZ_WT21)	22:04	47	20:51 (KLZ_WT21)
31	08:25				07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33				20:15	234	18:50 (KLZ_WT19)				21:49	46	20:51 (KLZ_WT21)			
Potential sun hours	262	279			367			415			482			495		
Total, worst case			534			5821			4898			1847			1401	
Sun reduction			0,30			0,38			0,46			0,46			0,44	
Oper. time red.			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.			0,72			0,69			0,70			0,64			0,67	
Total reduction			0,21			0,26			0,32			0,29			0,29	
Total, real			112			1492			1545			530			403	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November	December
1	05:34		06:04 (SAM_WT08)	06:09		07:09 (SAM_WT04)	06:57		08:19 (SAM_WT05)	07:44		14:12 (CBR_WT01)	07:36	08:26
	22:04	47	20:52 (KLZ_WT21)	21:33	74	21:00 (KLZ_WT21)	20:33	182	16:32 (CBR_WT01)	19:25	180	18:57 (KLZ_WT22)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10		07:07 (SAM_WT04)	06:59		08:18 (SAM_WT05)	07:46		14:13 (CBR_WT01)	07:38	08:27
	22:04	48	20:52 (KLZ_WT21)	21:32	82	20:59 (KLZ_WT21)	20:31	184	16:31 (CBR_WT01)	19:23	176	18:56 (KLZ_WT22)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12		07:07 (SAM_WT04)	07:00		08:17 (SAM_WT05)	07:48		14:14 (CBR_WT01)	07:40	08:29
	22:03	48	20:53 (KLZ_WT21)	21:30	87	20:59 (KLZ_WT21)	20:29	187	16:32 (CBR_WT01)	19:21	168	18:54 (KLZ_WT22)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13		07:05 (SAM_WT04)	07:02		08:16 (SAM_WT05)	07:49		14:15 (CBR_WT01)	07:42	08:30
	22:03	48	20:54 (KLZ_WT21)	21:29	93	20:57 (KLZ_WT21)	20:27	189	16:31 (CBR_WT01)	19:19	160	18:52 (KLZ_WT22)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15		07:05 (SAM_WT04)	07:03		08:15 (SAM_WT05)	07:51		14:16 (CBR_WT01)	07:43	08:31
	22:03	48	20:54 (KLZ_WT21)	21:27	97	20:57 (KLZ_WT21)	20:24	191	16:31 (CBR_WT01)	19:16	150	18:50 (KLZ_WT22)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16		07:04 (SAM_WT04)	07:05		08:14 (SAM_WT05)	07:52		14:17 (CBR_WT01)	07:45	08:33
	22:02	48	20:55 (KLZ_WT21)	21:25	100	20:55 (KLZ_WT21)	20:22	192	16:30 (CBR_WT01)	19:14	136	18:28 (KLZ_WT19)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18		07:04 (SAM_WT04)	07:06		08:14 (SAM_WT05)	07:54		14:18 (CBR_WT01)	07:47	08:34
	22:02	48	20:56 (KLZ_WT21)	21:23	102	20:53 (KLZ_WT21)	20:20	207	18:32 (KLZ_WT19)	19:12	129	18:25 (KLZ_WT19)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20		07:03 (SAM_WT04)	07:08		08:13 (SAM_WT05)	07:56		14:20 (CBR_WT01)	07:49	08:35
	22:01	48	20:57 (KLZ_WT21)	21:22	102	20:50 (KLZ_WT21)	20:18	216	18:35 (KLZ_WT19)	19:10	120	18:23 (KLZ_WT19)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21		07:02 (SAM_WT04)	07:10		08:13 (SAM_WT05)	07:57		14:20 (CBR_WT01)	07:50	08:36
	22:00	48	20:57 (KLZ_WT21)	21:20	98	20:51 (EVE_WT02)	20:15	221	18:37 (KLZ_WT19)	19:08	114	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23		07:02 (SAM_WT04)	07:11		08:12 (SAM_WT05)	07:59		14:22 (CBR_WT01)	07:52	08:37
	22:00	48	20:58 (KLZ_WT21)	21:18	103	20:50 (EVE_WT02)	20:13	227	18:39 (KLZ_WT19)	19:05	105	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24		07:01 (SAM_WT04)	07:13		08:12 (SAM_WT05)	08:01		14:24 (CBR_WT01)	07:54	08:38
	21:59	47	20:59 (KLZ_WT21)	21:16	108	20:48 (EVE_WT02)	20:11	229	18:40 (KLZ_WT19)	19:03	103	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26		07:02 (SAM_WT04)	07:14		08:11 (SAM_WT05)	08:02		14:25 (CBR_WT01)	07:56	08:39
	21:58	46	20:59 (KLZ_WT21)	21:14	110	16:29 (CBR_WT01)	20:09	233	18:41 (KLZ_WT19)	19:01	100	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27		07:01 (SAM_WT04)	07:16		08:12 (SAM_WT05)	08:04		14:27 (CBR_WT01)	07:57	08:40
	21:57	46	21:00 (KLZ_WT21)	21:12	115	16:29 (CBR_WT01)	20:06	233	18:42 (KLZ_WT19)	18:59	97	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29		07:02 (SAM_WT04)	07:17		08:11 (SAM_WT05)	08:06		14:29 (CBR_WT01)	07:59	08:41
	21:56	44	21:00 (KLZ_WT21)	21:11	118	16:30 (CBR_WT01)	20:04	236	18:42 (KLZ_WT19)	18:57	96	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30		07:01 (SAM_WT04)	07:19		08:11 (SAM_WT05)	08:07		14:32 (CBR_WT01)	08:01	08:42
	21:55	42	21:00 (KLZ_WT21)	21:09	122	16:30 (CBR_WT01)	20:02	237	18:43 (KLZ_WT19)	18:55	89	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32		07:02 (SAM_WT04)	07:21		08:11 (SAM_WT05)	08:09		14:33 (CBR_WT01)	08:02	08:43
	21:54	42	21:01 (KLZ_WT21)	21:07	124	16:31 (CBR_WT01)	19:59	236	18:43 (KLZ_WT19)	18:52	82	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33		07:02 (SAM_WT04)	07:22		08:12 (SAM_WT05)	08:11		14:36 (CBR_WT01)	08:04	08:44
	21:53	40	21:22 (EVE_WT01)	21:05	127	16:31 (CBR_WT01)	19:57	236	18:44 (KLZ_WT19)	18:50	72	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35		07:03 (SAM_WT04)	07:24		08:11 (SAM_WT05)	08:12		14:40 (CBR_WT01)	08:06	08:44
	21:52	36	21:21 (EVE_WT01)	21:03	129	16:32 (CBR_WT01)	19:55	235	18:43 (KLZ_WT19)	18:48	60	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37		07:04 (SAM_WT04)	07:25		08:12 (SAM_WT05)	08:14		14:43 (CBR_WT01)	08:07	08:45
	21:51	35	21:20 (EVE_WT01)	21:01	130	16:32 (CBR_WT01)	19:53	234	18:44 (KLZ_WT19)	18:46	45	15:28 (CBR_WT01)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38		07:05 (SAM_WT04)	07:27		08:13 (SAM_WT05)	08:16		14:47 (CBR_WT01)	08:09	08:46
	21:50	34	21:19 (EVE_WT01)	20:59	131	16:32 (CBR_WT01)	19:50	233	18:44 (KLZ_WT19)	18:44	35	15:22 (CBR_WT01)	16:52	16:39
21	05:54		20:30 (KLZ_WT21)	06:40		07:06 (SAM_WT04)	07:28		08:14 (SAM_WT05)	08:17		14:54 (CBR_WT01)	08:11	08:46
	21:49	32	21:02 (KLZ_WT21)	20:57	130	16:32 (CBR_WT01)	19:48	228	18:43 (KLZ_WT19)	18:42	22	15:16 (CBR_WT01)	16:51	16:40
22	05:55		20:30 (KLZ_WT21)	06:41		07:09 (SAM_WT04)	07:30		08:15 (SAM_WT05)	08:19			08:12	08:47
	21:48	32	21:02 (KLZ_WT21)	20:55	129	16:33 (CBR_WT01)	19:46	227	18:44 (KLZ_WT19)	18:40			16:50	16:40
23	05:56		20:29 (KLZ_WT21)	06:43		08:39 (SAM_WT05)	07:32		08:16 (SAM_WT05)	08:21			08:14	08:47
	21:46	33	21:02 (KLZ_WT21)	20:52	128	16:32 (CBR_WT01)	19:43	222	18:43 (KLZ_WT19)	18:38			16:49	16:41
24	05:58		20:29 (KLZ_WT21)	06:44		08:35 (SAM_WT05)	07:33		08:17 (SAM_WT05)	08:23			08:15	08:48
	21:45	33	21:02 (KLZ_WT21)	20:50	141	16:33 (CBR_WT01)	19:41	219	18:52 (KLZ_WT22)	18:36			16:48	16:41
25	05:59		20:30 (KLZ_WT21)	06:46		08:31 (SAM_WT05)	07:35		08:18 (SAM_WT05)	07:24			08:17	08:48
	21:44	33	21:03 (KLZ_WT21)	20:48	149	16:32 (CBR_WT01)	19:39	222	18:55 (KLZ_WT22)	17:34			16:47	16:42
26	06:00		20:30 (KLZ_WT21)	06:48		08:29 (SAM_WT05)	07:36		08:21 (SAM_WT05)	07:26			08:19	08:49
	21:42	32	21:02 (KLZ_WT21)	20:46	156	16:33 (CBR_WT01)	19:37	219	18:57 (KLZ_WT22)	17:32			16:46	16:43
27	06:02		20:29 (KLZ_WT21)	06:49		08:26 (SAM_WT05)	07:38		08:24 (SAM_WT05)	07:28			08:20	08:49
	21:41	33	21:02 (KLZ_WT21)	20:44	162	16:32 (CBR_WT01)	19:34	212	18:58 (KLZ_WT22)	17:30			16:45	16:43
28	06:03		20:30 (KLZ_WT21)	06:51		08:25 (SAM_WT05)	07:40		08:27 (SAM_WT05)	07:29			08:22	08:49
	21:40	32	21:02 (KLZ_WT21)	20:42	167	16:33 (CBR_WT01)	19:32	204	18:58 (KLZ_WT22)	17:28			16:44	16:44
29	06:05		20:30 (KLZ_WT21)	06:52		08:23 (SAM_WT05)	07:41		14:11 (CBR_WT01)	07:31			08:23	08:49
	21:38	33	21:08 (KLZ_WT13)	20:40	171	16:32 (CBR_WT01)	19:30	187	18:58 (KLZ_WT22)	17:26			16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54		08:22 (SAM_WT05)	07:43		14:11 (CBR_WT01)	07:33			08:24	08:49
	21:37	47	21:07 (KLZ_WT13)	20:38	175	16:33 (CBR_WT01)	19:28	184	18:57 (KLZ_WT22)	17:25			16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55		08:20 (SAM_WT05)				07:35				08:49
	21:35	64	21:06 (KLZ_WT13)	20:35	179	16:32 (CBR_WT01)				17:23				16:47
Potential sun hours	498			451			380			333			269	248
Total, worst case		1295			3839			6462			2239			
Sun reduction		0,45			0,47			0,43			0,36			
Oper. time red.		0,98			0,98			0,98			0,98			
Wind dir. red.		0,61			0,70			0,69			0,71			
Total reduction		0,27			0,32			0,29			0,25			
Total, real		348			1223			1876			565			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:49			08:24			07:32			07:23		19:33 (KLZ_WT19)	06:20		19:41 (SAM_WT05)	05:36		20:49 (KLZ_WT23)
	16:48			17:34			18:25			20:17	18	19:51 (CBR_WT01)	21:06	20	20:01 (SAM_WT05)	21:50	22	21:19 (SAM_WT07)
2	08:49			08:22			07:30			07:21		19:32 (CBR_WT01)	06:18		19:42 (SAM_WT05)	05:35		20:50 (KLZ_WT23)
	16:49			17:36			18:26			20:18	20	19:52 (CBR_WT01)	21:08	17	19:59 (SAM_WT05)	21:51	21	21:19 (SAM_WT07)
3	08:49			08:21			07:28			07:19		19:31 (CBR_WT01)	06:16		19:44 (SAM_WT05)	05:35		20:51 (KLZ_WT23)
	16:50			17:38			18:28			20:20	21	19:52 (CBR_WT01)	21:09	12	19:56 (SAM_WT05)	21:52	22	21:21 (SAM_WT07)
4	08:49			08:19			07:26			07:16		19:31 (CBR_WT01)	06:14			05:34		20:52 (KLZ_WT23)
	16:51			17:40			18:30			20:22	22	19:53 (CBR_WT01)	21:11			21:53	21	21:21 (SAM_WT07)
5	08:49			08:18		17:12 (ALB_WT01)	07:23			07:14		19:30 (CBR_WT01)	06:13			05:33		20:54 (KLZ_WT23)
	16:52			17:42	1	17:13 (ALB_WT01)	18:32			20:23	22	19:52 (CBR_WT01)	21:12			21:54	20	21:23 (SAM_WT07)
6	08:48			08:16		17:12 (ALB_WT01)	07:21			07:12		19:30 (CBR_WT01)	06:11			05:33		21:07 (SAM_WT07)
	16:54			17:43	3	17:15 (ALB_WT01)	18:33			20:25	21	19:51 (CBR_WT01)	21:14			21:55	16	21:23 (SAM_WT07)
7	08:48			08:14		17:13 (ALB_WT01)	07:19			07:10		19:30 (CBR_WT01)	06:09			05:32		21:07 (SAM_WT07)
	16:55			17:45	4	17:17 (ALB_WT01)	18:35			20:27	21	19:51 (CBR_WT01)	21:16			21:56	17	21:24 (SAM_WT07)
8	08:48			08:13			07:17			07:08		19:31 (CBR_WT01)	06:07			05:32		21:06 (SAM_WT07)
	16:56			17:47			18:37			20:28	19	19:50 (CBR_WT01)	21:17			21:57	18	21:24 (SAM_WT07)
9	08:47			08:11			07:15			07:05		19:32 (CBR_WT01)	06:06			05:31		21:07 (SAM_WT07)
	16:57			17:49			18:38			20:30	25	19:59 (SAM_WT05)	21:19			21:58	19	21:26 (SAM_WT07)
10	08:47			08:09			07:13			07:03		19:33 (CBR_WT01)	06:04			05:31		21:07 (SAM_WT07)
	16:59			17:51			18:40			20:32	30	20:03 (SAM_WT05)	21:20			21:59	20	21:27 (SAM_WT07)
11	08:46			08:07			07:10			07:01		19:34 (CBR_WT01)	06:02			05:30		21:06 (SAM_WT07)
	17:00			17:53			18:42			20:33	30	20:04 (SAM_WT05)	21:22			21:59	21	21:27 (SAM_WT07)
12	08:46		16:27 (RHR_WT01)	08:06			07:08			06:59		19:41 (SAM_WT05)	06:01			05:30		21:06 (SAM_WT07)
	17:02	1	16:28 (RHR_WT01)	17:54			18:43			20:35	25	20:06 (SAM_WT05)	21:23			22:00	21	21:27 (SAM_WT07)
13	08:45		16:26 (RHR_WT01)	08:04			07:06			06:57		19:40 (SAM_WT05)	05:59		20:50 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:03	4	16:30 (RHR_WT01)	17:56			18:45			20:37	27	20:07 (SAM_WT05)	21:25	6	20:56 (KLZ_WT23)	22:01	21	21:28 (SAM_WT07)
14	08:44		16:28 (RHR_WT01)	08:02			07:04			06:54		19:39 (SAM_WT05)	05:58		20:48 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:04	4	16:32 (RHR_WT01)	17:58			18:47			20:38	29	20:08 (SAM_WT05)	21:26	9	20:57 (KLZ_WT23)	22:01	22	21:29 (SAM_WT07)
15	08:44		16:28 (RHR_WT01)	08:00			07:01			06:52		19:38 (SAM_WT05)	05:56		20:47 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:06	6	16:34 (RHR_WT01)	18:00			18:49			20:40	31	20:09 (SAM_WT05)	21:28	12	20:59 (KLZ_WT23)	22:02	22	21:29 (SAM_WT07)
16	08:43		16:28 (RHR_WT01)	07:58		17:32 (MXS_WT01)	06:59			06:50		19:37 (SAM_WT05)	05:55		20:46 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:08	8	16:36 (RHR_WT01)	18:02	2	17:34 (MXS_WT01)	18:50			20:42	32	20:09 (SAM_WT05)	21:29	13	20:59 (KLZ_WT23)	22:02	23	21:30 (SAM_WT07)
17	08:42		16:28 (RHR_WT01)	07:56		17:32 (MXS_WT01)	06:57			06:48		19:36 (SAM_WT05)	05:53		20:45 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:09	9	16:37 (RHR_WT01)	18:03	4	17:36 (MXS_WT01)	18:52			20:43	33	20:09 (SAM_WT05)	21:31	16	21:01 (KLZ_WT23)	22:03	23	21:30 (SAM_WT07)
18	08:41		16:29 (RHR_WT01)	07:54		17:33 (MXS_WT01)	06:55			06:46		19:36 (SAM_WT05)	05:52		20:45 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:11	10	16:39 (RHR_WT01)	18:05	5	17:38 (MXS_WT01)	18:54			20:45	34	20:10 (SAM_WT05)	21:32	17	21:02 (KLZ_WT23)	22:03	23	21:30 (SAM_WT07)
19	08:40		16:30 (RHR_WT01)	07:52		17:34 (MXS_WT01)	06:52			06:44		19:35 (SAM_WT05)	05:51		20:45 (KLZ_WT23)	05:29		21:08 (SAM_WT07)
	17:12	11	16:41 (RHR_WT01)	18:07	6	17:40 (MXS_WT01)	18:55			20:46	37	20:20 (KLZ_WT21)	21:34	18	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
20	08:39		16:29 (RHR_WT01)	07:50			06:50			06:42		19:35 (SAM_WT05)	05:49		20:44 (KLZ_WT23)	05:29		21:08 (SAM_WT07)
	17:14	13	16:42 (RHR_WT01)	18:09			18:57			20:48	40	20:22 (KLZ_WT21)	21:35	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
21	08:38		16:31 (RHR_WT01)	07:48			06:48		18:31 (KLZ_WT22)	06:40		19:35 (SAM_WT05)	05:48		20:44 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:16	13	16:44 (RHR_WT01)	18:10			18:59	2	18:33 (KLZ_WT22)	20:50	41	20:23 (KLZ_WT21)	21:37	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
22	08:37		16:32 (RHR_WT01)	07:46			06:46		18:30 (KLZ_WT22)	06:38		19:35 (SAM_WT05)	05:47		20:44 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:17	12	16:44 (RHR_WT01)	18:12			19:00	5	18:35 (KLZ_WT22)	20:51	43	20:25 (KLZ_WT21)	21:38	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
23	08:36		16:33 (RHR_WT01)	07:44			06:43		18:31 (KLZ_WT22)	06:36		19:35 (SAM_WT05)	05:45		20:45 (KLZ_WT23)	05:30		21:09 (SAM_WT07)
	17:19	11	16:44 (RHR_WT01)	18:14			19:02	6	18:37 (KLZ_WT22)	20:53	44	20:26 (KLZ_WT21)	21:39	19	21:04 (KLZ_WT23)	22:05	22	21:31 (SAM_WT07)
24	08:35		16:35 (RHR_WT01)	07:42			06:41		18:30 (KLZ_WT22)	06:34		19:35 (SAM_WT05)	05:44		20:45 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:21	8	16:49 (RHR_WT03)	18:16			19:04	8	18:38 (KLZ_WT22)	20:55	45	20:28 (KLZ_WT21)	21:41	19	21:04 (KLZ_WT23)	22:05	23	21:31 (SAM_WT07)
25	08:33		16:49 (RHR_WT03)	07:40			06:39		18:32 (KLZ_WT22)	06:32		19:35 (SAM_WT05)	05:43		20:45 (KLZ_WT23)	05:31		21:08 (SAM_WT07)
	17:22	3	16:52 (RHR_WT03)	18:18			19:05	7	18:40 (KLZ_WT19)	20:56	44	20:28 (KLZ_WT21)	21:42	18	21:03 (KLZ_WT23)	22:05	23	21:31 (SAM_WT07)
26	08:32		16:50 (RHR_WT03)	07:38			06:37		18:37 (KLZ_WT19)	06:30		19:35 (SAM_WT05)	05:42		20:45 (KLZ_WT23)	05:31		21:09 (SAM_WT07)
	17:24	4	16:54 (RHR_WT03)	18:19			19:07	5	18:42 (KLZ_WT19)	20:58	42	20:27 (KLZ_WT21)	21:43	18	21:03 (KLZ_WT23)	22:05	23	21:32 (SAM_WT07)
27	08:31		16:50 (RHR_WT03)	07:36			06:34		18:36 (KLZ_WT19)	06:28		19:36 (SAM_WT05)	05:41		20:46 (KLZ_WT23)	05:31		21:09 (SAM_WT07)
	17:26	5	16:55 (RHR_WT03)	18:21			19:09	8	18:44 (KLZ_WT19)	21:00	36	20:25 (KLZ_WT21)	21:44	17	21:03 (KLZ_WT23)	22:05	22	21:31 (SAM_WT07)
28	08:29		16:51 (RHR_WT03)	07:34			06:32		18:34 (KLZ_WT19)	06:26		19:36 (SAM_WT05)	05:40		20:46 (KLZ_WT23)	05:32		21:10 (SAM_WT07)
	17:27	7	16:58 (RHR_WT03)	18:23			19:10	11	18:45 (KLZ_WT19)	21:01	28	20:04 (SAM_WT05)	21:46	17	21:03 (KLZ_WT23)	22:05	22	21:32 (SAM_WT07)
29	08:28		16:52 (RHR_WT03)				07:30		19:33 (KLZ_WT19)	06:24		19:37 (SAM_WT05)	05:39		20:47 (KLZ_WT23)	05:32		21:10 (SAM_WT07)
	17:29	7	16:59 (RHR_WT03)				20:12	14	19:47 (KLZ_WT19)	21:03	26	20:03 (SAM_WT05)	21:47	15	21:02 (KLZ_WT23)	22:04	21	21:31 (SAM_WT07)
30	08:27		16:55 (RHR_WT03)				07:28		19:33 (KLZ_WT19)	06:22		19:39 (SAM_WT05)	05:38		20:48 (KLZ_WT23)	05:33		21:10 (SAM_WT07)
	17:31	4	16:59 (RHR_WT03)				20:14	16	19:49 (KLZ_WT19)	21:04	24	20:03 (SAM_WT05)	21:48	20	21:17 (SAM_WT07)	22:04	22	21:32 (SAM_WT07)
31	08:25						07:25		19:33 (KLZ_WT19)				05:37		20:48 (KLZ_WT23)			
	17:33						20:15	17	19:50 (KLZ_WT19)				21:49	22	21:18 (SAM_WT07)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		140			25			99			910			362			638	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71			0,69			0,62			0,59			0,56			0,55	
Total reduction		0,17			0,20			0,23			0,27			0,25			0,24	
Total, real		24			5			23			241			90			152	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		21:10 (SAM_WT07)	06:09			06:57		19:33 (CBR_WT01)	07:44			07:36			08:26		
	22:04	21	21:31 (SAM_WT07)	21:33			20:33	30	20:03 (SAM_WT05)	19:25			17:21			16:42		
2	05:34		21:11 (SAM_WT07)	06:10			06:58		19:31 (CBR_WT01)	07:46			07:38			08:27		
	22:04	20	21:31 (SAM_WT07)	21:32			20:31	30	20:01 (SAM_WT05)	19:23			17:19			16:41		
3	05:35		21:12 (SAM_WT07)	06:12			07:00		19:30 (CBR_WT01)	07:47			07:40		16:45 (ALB_WT01)	08:29		
	22:03	19	21:31 (SAM_WT07)	21:30			20:29	25	19:57 (SAM_WT05)	19:21			17:17	2	16:47 (ALB_WT01)	16:41		
4	05:36		21:12 (SAM_WT07)	06:13			07:02		19:28 (CBR_WT01)	07:49			07:42		16:43 (ALB_WT01)	08:30		
	22:03	19	21:31 (SAM_WT07)	21:28			20:26	19	19:47 (CBR_WT01)	19:18			17:16	3	16:46 (ALB_WT01)	16:40		
5	05:37		21:12 (SAM_WT07)	06:15			07:03		19:27 (CBR_WT01)	07:51			07:43		16:42 (ALB_WT01)	08:31		
	22:02	18	21:30 (SAM_WT07)	21:27			20:24	21	19:48 (CBR_WT01)	19:16			17:14	2	16:44 (ALB_WT01)	16:40		
6	05:37		21:13 (SAM_WT07)	06:16			07:05		19:26 (CBR_WT01)	07:52			07:45		16:42 (ALB_WT01)	08:32		
	22:02	17	21:30 (SAM_WT07)	21:25			20:22	21	19:47 (CBR_WT01)	19:14			17:12	1	16:43 (ALB_WT01)	16:39		
7	05:38		21:14 (SAM_WT07)	06:18			07:06		19:26 (CBR_WT01)	07:54			07:47			08:34		
	22:01	15	21:29 (SAM_WT07)	21:23			20:20	22	19:48 (CBR_WT01)	19:12			17:10			16:39		
8	05:39		21:00 (KLZ_WT23)	06:19			07:08		19:25 (CBR_WT01)	07:56			07:49			08:35		
	22:01	21	21:29 (SAM_WT07)	21:22			20:17	22	19:47 (CBR_WT01)	19:10			17:09			16:39		
9	05:40		20:59 (KLZ_WT23)	06:21		19:57 (SAM_WT05)	07:09		19:26 (CBR_WT01)	07:57			07:50			08:36		
	22:00	21	21:28 (SAM_WT07)	21:20	4	20:01 (SAM_WT05)	20:15	21	19:47 (CBR_WT01)	19:07			17:07			16:38		
10	05:41		20:58 (KLZ_WT23)	06:23		19:53 (SAM_WT05)	07:11		19:25 (CBR_WT01)	07:59			07:52			08:37		
	21:59	22	21:28 (SAM_WT07)	21:18	13	20:06 (SAM_WT05)	20:13	20	19:45 (CBR_WT01)	19:05			17:06			16:38		
11	05:42		20:58 (KLZ_WT23)	06:24		19:50 (SAM_WT05)	07:13		19:26 (KLZ_WT19)	08:01			07:54			08:38		
	21:59	21	21:27 (SAM_WT07)	21:16	18	20:08 (SAM_WT05)	20:11	18	19:44 (CBR_WT01)	19:03			17:04			16:38		
12	05:43		20:57 (KLZ_WT23)	06:26		19:49 (SAM_WT05)	07:14		19:24 (KLZ_WT19)	08:02			07:55		16:26 (RHR_WT03)	08:39		
	21:58	22	21:27 (SAM_WT07)	21:14	21	20:10 (SAM_WT05)	20:08	18	19:42 (KLZ_WT19)	19:01			17:03	4	16:30 (RHR_WT03)	16:38		
13	05:44		20:57 (KLZ_WT23)	06:27		19:46 (SAM_WT05)	07:16		19:24 (KLZ_WT19)	08:04			07:57		16:24 (RHR_WT03)	08:40		
	21:57	20	21:26 (SAM_WT07)	21:12	24	20:10 (SAM_WT05)	20:06	16	19:40 (KLZ_WT19)	18:59			17:01	7	16:31 (RHR_WT03)	16:38		
14	05:45		20:56 (KLZ_WT23)	06:29		19:46 (SAM_WT05)	07:17		19:24 (KLZ_WT19)	08:06			07:59		16:23 (RHR_WT03)	08:41		
	21:56	17	21:25 (SAM_WT07)	21:10	26	20:12 (SAM_WT05)	20:04	13	19:37 (KLZ_WT19)	18:57			17:00	6	16:29 (RHR_WT03)	16:38		
15	05:46		20:56 (KLZ_WT23)	06:30		19:44 (SAM_WT05)	07:19		19:24 (KLZ_WT19)	08:07			08:01		16:23 (RHR_WT03)	08:42		
	21:55	16	21:12 (KLZ_WT23)	21:08	28	20:12 (SAM_WT05)	20:02	11	19:35 (KLZ_WT19)	18:54			16:58	5	16:28 (RHR_WT03)	16:38		
16	05:47		20:55 (KLZ_WT23)	06:32		19:43 (SAM_WT05)	07:20		19:24 (KLZ_WT19)	08:09			08:02		16:23 (RHR_WT03)	08:43		
	21:54	17	21:12 (KLZ_WT23)	21:07	37	20:33 (KLZ_WT21)	19:59	9	19:33 (KLZ_WT19)	18:52			16:57	4	16:27 (RHR_WT03)	16:38		
17	05:49		20:55 (KLZ_WT23)	06:33		19:42 (SAM_WT05)	07:22		19:25 (KLZ_WT19)	08:11			08:04		16:22 (RHR_WT03)	08:44		
	21:53	18	21:13 (KLZ_WT23)	21:05	41	20:34 (KLZ_WT21)	19:57	6	19:31 (KLZ_WT19)	18:50			16:56	2	16:24 (RHR_WT03)	16:38		
18	05:50		20:55 (KLZ_WT23)	06:35		19:42 (SAM_WT05)	07:24		19:20 (KLZ_WT22)	08:12			08:06		16:09 (RHR_WT01)	08:44		15:52 (RHR_WT02)
	21:52	18	21:13 (KLZ_WT23)	21:03	44	20:35 (KLZ_WT21)	19:55	7	19:28 (KLZ_WT19)	18:48			16:54	8	16:23 (RHR_WT03)	16:39	2	15:54 (RHR_WT02)
19	05:51		20:54 (KLZ_WT23)	06:37		19:40 (SAM_WT05)	07:25		19:18 (KLZ_WT22)	08:14			08:07		16:07 (RHR_WT01)	08:45		15:53 (RHR_WT02)
	21:51	19	21:13 (KLZ_WT23)	21:01	46	20:33 (KLZ_WT21)	19:53	8	19:26 (KLZ_WT22)	18:46			16:53	11	16:18 (RHR_WT01)	16:39	2	15:55 (RHR_WT02)
20	05:52		20:54 (KLZ_WT23)	06:38		19:40 (SAM_WT05)	07:27		19:16 (KLZ_WT22)	08:16			08:09		16:07 (RHR_WT01)	08:46		15:52 (RHR_WT02)
	21:50	19	21:13 (KLZ_WT23)	20:59	45	20:32 (KLZ_WT21)	19:50	7	19:23 (KLZ_WT22)	18:44			16:52	12	16:19 (RHR_WT01)	16:39	4	15:56 (RHR_WT02)
21	05:54		20:55 (KLZ_WT23)	06:40		19:39 (SAM_WT05)	07:28		19:16 (KLZ_WT22)	08:17			08:11		16:07 (RHR_WT01)	08:46		15:53 (RHR_WT02)
	21:49	19	21:14 (KLZ_WT23)	20:56	44	20:29 (KLZ_WT21)	19:48	5	19:21 (KLZ_WT22)	18:42			16:51	13	16:20 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
22	05:55		20:55 (KLZ_WT23)	06:41		19:39 (SAM_WT05)	07:30		19:16 (KLZ_WT22)	08:19		18:07 (MXS_WT01)	08:12		16:06 (RHR_WT01)	08:47		15:53 (RHR_WT02)
	21:48	19	21:14 (KLZ_WT23)	20:54	42	20:28 (KLZ_WT21)	19:46	4	19:20 (KLZ_WT22)	18:40	3	18:10 (MXS_WT01)	16:50	12	16:18 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
23	05:56		20:55 (KLZ_WT23)	06:43		19:39 (SAM_WT05)	07:31		19:16 (KLZ_WT22)	08:21		18:04 (MXS_WT01)	08:14		16:06 (RHR_WT01)	08:47		15:54 (RHR_WT02)
	21:46	19	21:14 (KLZ_WT23)	20:52	39	20:25 (KLZ_WT21)	19:43	1	19:17 (KLZ_WT22)	18:38	6	18:10 (MXS_WT01)	16:49	11	16:17 (RHR_WT01)	16:41	4	15:58 (RHR_WT02)
24	05:58		20:55 (KLZ_WT23)	06:44		19:39 (SAM_WT05)	07:33			08:22		18:03 (MXS_WT01)	08:15		16:06 (RHR_WT01)	08:48		15:54 (RHR_WT02)
	21:45	18	21:13 (KLZ_WT23)	20:50	36	20:24 (KLZ_WT21)	19:41			18:36	5	18:08 (MXS_WT01)	16:48	10	16:16 (RHR_WT01)	16:41	3	15:57 (RHR_WT02)
25	05:59		20:56 (KLZ_WT23)	06:46		19:38 (SAM_WT05)	07:35			07:24		17:02 (MXS_WT01)	08:17		16:06 (RHR_WT01)	08:48		15:55 (RHR_WT02)
	21:44	18	21:14 (KLZ_WT23)	20:48	34	20:12 (SAM_WT05)	19:39			17:34	3	17:05 (MXS_WT01)	16:47	9	16:15 (RHR_WT01)	16:42	2	15:57 (RHR_WT02)
26	06:00		20:56 (KLZ_WT23)	06:47		19:39 (SAM_WT05)	07:36			07:26		17:01 (MXS_WT01)	08:18		16:06 (RHR_WT01)	08:49		
	21:42	16	21:12 (KLZ_WT23)	20:46	33	20:12 (SAM_WT05)	19:37			17:32	2	17:03 (MXS_WT01)	16:46	8	16:14 (RHR_WT01)	16:43		
27	06:02		20:56 (KLZ_WT23)	06:49		19:39 (SAM_WT05)	07:38			07:28			08:20		16:07 (RHR_WT01)	08:49		
	21:41	15	21:11 (KLZ_WT23)	20:44	32	20:11 (SAM_WT05)	19:34			17:30			16:45	6	16:13 (RHR_WT01)	16:43		
28	06:03		20:57 (KLZ_WT23)	06:51		19:39 (SAM_WT05)	07:39			07:29			08:21		16:07 (RHR_WT01)	08:49		
	21:39	13	21:10 (KLZ_WT23)	20:42	30	20:09 (SAM_WT05)	19:32			17:28			16:44	5	16:12 (RHR_WT01)	16:44		
29	06:05		20:58 (KLZ_WT23)	06:52		19:40 (SAM_WT05)	07:41			07:31			08:23		16:08 (RHR_WT01)	08:49		
	21:38	10	21:08 (KLZ_WT23)	20:40	29	20:09 (SAM_WT05)	19:30			17:26			16:43	3	16:11 (RHR_WT01)	16:45		
30	06:06		20:59 (KLZ_WT23)	06:54		19:40 (SAM_WT05)	07:43			07:33			08:24		16:09 (RHR_WT01)	08:49		
	21:37	8	21:07 (KLZ_WT23)	20:37	27	20:07 (SAM_WT05)	19:27			17:24			16:43	2	16:11 (RHR_WT01)	16:46		
31	06:07		21:01 (KLZ_WT23)	06:55		19:38 (CBR_WT01)				07:35						08:49		
	21:35	5	21:06 (KLZ_WT23)	20:35	26	20:05 (SAM_WT05)				17:23						16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case	540			719			354			19			146			25		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,55			0,58			0,61			0,68			0,71			0,72		
Total reduction	0,24			0,26			0,26			0,24			0,19			0,16		
Total, real	131			190			91			5			27			4		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21		19:39 (KLZ_WT22)	06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19	7	19:46 (KLZ_WT22)	21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21			07:28			07:19		19:36 (KLZ_WT22)	06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38			18:28			20:20	13	19:49 (KLZ_WT22)	21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19			07:26			07:17		19:34 (KLZ_WT22)	06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40			18:30			20:22	17	19:51 (KLZ_WT22)	21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18			07:24			07:14		19:32 (KLZ_WT22)	06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42			18:32			20:24	21	19:53 (KLZ_WT22)	21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16			07:21			07:12		19:30 (KLZ_WT22)	06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44			18:33			20:25	23	19:53 (KLZ_WT22)	21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14			07:19			07:10		19:29 (KLZ_WT22)	06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45			18:35			20:27	24	19:53 (KLZ_WT22)	21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		19:28 (KLZ_WT22)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	28	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		19:28 (KLZ_WT22)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	30	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		19:28 (KLZ_WT22)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	30	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		19:28 (KLZ_WT22)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	31	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		19:27 (KLZ_WT22)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	29	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57		19:27 (KLZ_WT22)	05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37	25	19:52 (KLZ_WT22)	21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55		19:27 (KLZ_WT22)	05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38	24	19:51 (KLZ_WT22)	21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52		19:28 (KLZ_WT22)	05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40	22	19:50 (KLZ_WT22)	21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50		19:29 (KLZ_WT22)	05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42	20	19:49 (KLZ_WT22)	21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48		19:30 (KLZ_WT22)	05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43	18	19:48 (KLZ_WT22)	21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46		19:32 (KLZ_WT22)	05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45	14	19:46 (KLZ_WT22)	21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44		19:35 (KLZ_WT22)	05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47	8	19:43 (KLZ_WT22)	21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	302			7			138			422			763			1138		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,54			0,54			0,63			0,61			0,67			0,58		
Total reduction	0,13			0,16			0,23			0,28			0,30			0,25		
Total, real	39			1			32			116			227			286		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		19:27 (KLZ_WT22)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	32	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		19:26 (KLZ_WT22)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	30	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:26 (KLZ_WT22)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	30	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:25 (KLZ_WT22)	07:49	07:42			08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	28	20:00 (KLZ_WT15)	19:19	17:16			16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03		19:26 (KLZ_WT22)	07:51	07:43			08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24	24	19:50 (KLZ_WT22)	19:16	17:14			16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05		19:26 (KLZ_WT22)	07:52	07:45			08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22	23	19:49 (KLZ_WT22)	19:14	17:12			16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06		19:27 (KLZ_WT22)	07:54	07:47			08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20	21	19:48 (KLZ_WT22)	19:12	17:11			16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08		19:28 (KLZ_WT22)	07:56	07:49			08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18	17	19:45 (KLZ_WT22)	19:10	17:09			16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10		19:30 (KLZ_WT22)	07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15	14	19:44 (KLZ_WT22)	19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11		19:32 (KLZ_WT22)	07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13	8	19:40 (KLZ_WT22)	19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44		19:38 (KLZ_WT22)	07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50	9	19:47 (KLZ_WT22)	19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46		19:35 (KLZ_WT22)	07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48	14	19:49 (KLZ_WT22)	19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48		19:33 (KLZ_WT22)	07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46	18	19:51 (KLZ_WT22)	19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49		19:31 (KLZ_WT22)	07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44	20	19:51 (KLZ_WT22)	19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51		19:30 (KLZ_WT22)	07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42	22	19:52 (KLZ_WT22)	19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52		19:28 (KLZ_WT22)	07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40	24	19:52 (KLZ_WT22)	19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54		19:28 (KLZ_WT22)	07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38	25	19:53 (KLZ_WT22)	19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		19:27 (KLZ_WT22)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	29	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			521			367				312		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,98			0,98			0,98				0,98		
Wind dir. red.		0,62			0,65			0,61				0,54		
Total reduction		0,27			0,30			0,26				0,14		
Total, real		221			155			95				44		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	29	09:28 (RHR_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	63	20:53 (KLZ_WT22)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	29	09:27 (RHR_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	63	20:54 (KLZ_WT22)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	28	09:26 (RHR_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	65	20:55 (KLZ_WT22)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	25	09:25 (RHR_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	68	20:55 (KLZ_WT22)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	17	09:22 (RHR_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	69	20:56 (KLZ_WT22)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	4	08:53 (MVZ_WT02)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	72	20:57 (KLZ_WT22)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	72	20:58 (KLZ_WT22)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	73	20:59 (KLZ_WT22)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	73	20:59 (KLZ_WT22)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	75	20:59 (KLZ_WT22)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	75	21:00 (KLZ_WT22)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	74	21:00 (KLZ_WT22)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	75	21:00 (KLZ_WT22)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	74	21:01 (KLZ_WT22)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	74	21:01 (KLZ_WT22)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	75	21:02 (KLZ_WT22)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	74	21:02 (KLZ_WT22)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	73	21:02 (KLZ_WT22)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	72	21:02 (KLZ_WT22)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	73	21:03 (KLZ_WT22)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	73	21:03 (KLZ_WT22)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	73	21:04 (KLZ_WT22)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	73	21:04 (KLZ_WT22)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	73	21:03 (KLZ_WT22)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	73	21:04 (KLZ_WT22)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	36	20:44 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	42	20:46 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	27	09:30 (RHR_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	48	20:48 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	27	09:29 (RHR_WT01)				20:12			21:03			21:47	51	20:50 (KLZ_WT22)	22:05	74	21:05 (KLZ_WT22)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	27	09:29 (RHR_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	55	20:51 (KLZ_WT22)	22:04	75	21:04 (KLZ_WT22)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	28	09:28 (RHR_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	59	20:52 (KLZ_WT22)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		559			284			328			86			716			2168	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,54			0,55			0,55			0,61			0,65			0,63	
Total reduction		0,13			0,16			0,20			0,28			0,29			0,27	
Total, real		73			46			67			24			206			587	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	74	21:04 (KLZ_WT22)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MXS_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	76	21:04 (KLZ_WT22)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MXS_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	74	21:04 (KLZ_WT22)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MXS_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42			08:30		09:21 (RHR_WT02)
	22:03	73	21:04 (KLZ_WT22)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MXS_WT01)	17:16			16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	71	21:03 (KLZ_WT22)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MXS_WT01)	17:14	5	08:23 (MVZ_WT02)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	72	21:03 (KLZ_WT22)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MXS_WT01)	17:12	18	08:52 (RHR_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	70	21:03 (KLZ_WT22)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MXS_WT01)	17:11	25	08:55 (RHR_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	68	21:03 (KLZ_WT22)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	28	08:57 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	66	21:02 (KLZ_WT22)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	29	08:58 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	65	21:02 (KLZ_WT22)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	29	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	61	21:01 (KLZ_WT22)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	28	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	60	21:01 (KLZ_WT22)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	28	09:00 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	58	21:00 (KLZ_WT22)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	26	09:01 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	54	20:59 (KLZ_WT22)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	26	09:01 (RHR_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	50	20:58 (KLZ_WT22)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	44	20:56 (KLZ_WT22)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	39	20:54 (KLZ_WT22)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	30	20:51 (KLZ_WT22)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1301			222			109			468			526			582	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,64			0,60			0,55			0,54			0,54	
Total reduction		0,28			0,29			0,25			0,20			0,14			0,12	
Total, real		363			65			28			92			75			69	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	53	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	54	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:14 (KLZ_WT19)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	55	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:13 (KLZ_WT19)
	16:51	39	10:21 (ALB_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	56	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:14 (KLZ_WT19)
	16:53	35	10:20 (ALB_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	56	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:40 (CBR_WT01)	05:33		06:14 (KLZ_WT19)
	16:54	33	10:19 (ALB_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	20	07:00 (CBR_WT01)	21:56	55	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:40 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:55	27	10:17 (ALB_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	20	07:00 (CBR_WT01)	21:56	58	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:39 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:56	25	09:51 (RHR_WT03)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	20	06:59 (CBR_WT01)	21:57	58	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:58	25	09:52 (RHR_WT03)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	19	06:59 (CBR_WT01)	21:58	60	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:59	24	09:51 (RHR_WT03)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	18	06:58 (CBR_WT01)	21:59	60	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:41 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	17:00	24	09:51 (RHR_WT03)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	17	06:58 (CBR_WT01)	22:00	61	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	26	09:51 (RHR_WT03)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	16	06:56 (CBR_WT01)	22:00	60	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	26	09:52 (RHR_WT03)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	15	06:56 (CBR_WT01)	22:01	63	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	27	09:52 (RHR_WT03)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	12	06:53 (CBR_WT01)	22:01	62	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	28	09:51 (RHR_WT03)	18:00			18:49			20:40			21:28	8	06:51 (CBR_WT01)	22:02	61	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	28	09:51 (RHR_WT03)	18:02			18:50			20:42			21:30	5	06:26 (SAM_WT11)	22:03	63	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	27	09:50 (RHR_WT03)	18:04			18:52			20:43			21:31	7	06:29 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	26	09:49 (RHR_WT03)	18:05			18:54			20:45			21:33	16	06:34 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	25	09:48 (RHR_WT03)	18:07			18:55			20:47			21:34	20	06:37 (KLZ_WT19)	22:04	63	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	21	09:46 (RHR_WT03)	18:09			18:57			20:48			21:35	18	06:38 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	16	09:21 (RHR_WT02)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	21	06:40 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	16	09:21 (RHR_WT02)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	26	21:07 (KLZ_WT15)	22:05	64	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:16 (KLZ_WT19)	05:30		06:00 (SAM_WT07)
	17:19	16	09:22 (RHR_WT02)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	32	21:09 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	14	09:20 (RHR_WT02)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	35	21:10 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	37	21:11 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	40	21:12 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	44	21:13 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	45	21:14 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:15 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	47	21:16 (KLZ_WT15)	22:05	62	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:14 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	49	21:17 (KLZ_WT15)	22:04	61	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:14 (KLZ_WT19)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	51	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		685			250			158			316			747			1815	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,54			0,55			0,57			0,62			0,67			0,66	
Total reduction		0,13			0,16			0,21			0,28			0,30			0,28	
Total, real		89			41			33			89			224			515	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:52 (CBR_WT01)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	61	21:27 (KLZ_WT15)	21:34	15	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	24	09:33 (RHR_WT03)
2	05:35		06:04 (SAM_WT07)	06:11		06:51 (CBR_WT01)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	61	21:27 (KLZ_WT15)	21:32	17	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	24	09:34 (RHR_WT03)
3	05:35		06:05 (SAM_WT07)	06:12		06:50 (CBR_WT01)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	59	21:27 (KLZ_WT15)	21:30	19	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	25	09:35 (RHR_WT03)
4	05:36		06:06 (SAM_WT07)	06:14		06:49 (CBR_WT01)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	59	21:28 (KLZ_WT15)	21:29	20	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
5	05:37		06:07 (SAM_WT07)	06:15		06:50 (CBR_WT01)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	58	21:28 (KLZ_WT15)	21:27	19	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
6	05:38		06:20 (KLZ_WT19)	06:17		06:49 (CBR_WT01)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	56	21:28 (KLZ_WT15)	21:25	20	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	32	10:05 (ALB_WT01)
7	05:38		06:20 (KLZ_WT19)	06:18		06:50 (CBR_WT01)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	57	21:28 (KLZ_WT15)	21:24	20	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	35	10:07 (ALB_WT01)
8	05:39		06:21 (KLZ_WT19)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	55	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	38	10:09 (ALB_WT01)
9	05:40		06:21 (KLZ_WT19)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:21 (KLZ_WT19)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:22 (KLZ_WT19)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	52	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:22 (KLZ_WT19)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	52	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:23 (KLZ_WT19)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	50	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:23 (KLZ_WT19)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	48	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:23 (KLZ_WT19)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	47	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:24 (KLZ_WT19)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	43	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:24 (KLZ_WT19)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	42	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	38	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	14	08:54 (RHR_WT02)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	37	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	16	08:56 (RHR_WT02)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	33	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	16	08:56 (RHR_WT02)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	29	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	16	08:57 (RHR_WT02)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	24	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	21	09:22 (RHR_WT03)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	20	06:49 (KLZ_WT19)	20:53			19:44			18:38			16:49	25	09:24 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	19	06:48 (KLZ_WT19)	20:50			19:41			18:36			16:48	26	09:26 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	18	06:46 (KLZ_WT19)	20:48			19:39			17:34			16:47	27	09:28 (RHR_WT03)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	14	06:43 (KLZ_WT19)	20:46			19:37			17:32			16:46	27	09:29 (RHR_WT03)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	6	06:36 (SAM_WT11)	20:44			19:34			17:30			16:45	27	09:30 (RHR_WT03)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	5	06:37 (SAM_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	11	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	15	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	26	09:33 (RHR_WT03)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	15	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1194			305			263			245			462			1235	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,66			0,67			0,61			0,56			0,54			0,54	
Total reduction		0,29			0,30			0,26			0,20			0,14			0,12	
Total, real		347			93			68			49			65			147	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (ATS_WT01)	08:24			07:32		07:59 (ALB_WT01)	07:23			06:20		06:48 (KLZ_WT16)	05:37		06:04 (KLZ_WT21)
	16:48	8	09:40 (ATS_WT01)	17:35			18:25	5	08:04 (ALB_WT01)	20:17			21:06	12	07:00 (KLZ_WT16)	21:51	44	07:07 (KLZ_WT16)
2	08:50		09:33 (ATS_WT01)	08:23			07:30			07:21			06:18		06:45 (KLZ_WT16)	05:36		06:04 (KLZ_WT21)
	16:49	7	09:40 (ATS_WT01)	17:37			18:27			20:19			21:08	18	07:03 (KLZ_WT16)	21:52	44	07:07 (KLZ_WT16)
3	08:49		09:35 (ATS_WT01)	08:21			07:28			07:19			06:17		06:44 (KLZ_WT16)	05:35		06:03 (KLZ_WT21)
	16:50	4	09:39 (ATS_WT01)	17:38			18:28			20:20			21:10	21	07:05 (KLZ_WT16)	21:53	42	07:06 (KLZ_WT16)
4	08:49			08:19			07:26			07:17			06:15		06:42 (KLZ_WT16)	05:34		06:03 (KLZ_WT21)
	16:52			17:40			18:30			20:22			21:11	24	07:06 (KLZ_WT16)	21:54	42	07:07 (KLZ_WT16)
5	08:49			08:18			07:24			07:14			06:13		06:40 (KLZ_WT16)	05:34		06:02 (KLZ_WT21)
	16:53			17:42			18:32			20:24			21:13	27	07:07 (KLZ_WT16)	21:55	41	07:06 (KLZ_WT16)
6	08:49			08:16			07:22		07:44 (RHR_WT01)	07:12			06:11		06:40 (KLZ_WT16)	05:33		06:02 (KLZ_WT21)
	16:54			17:44			18:34	1	07:45 (RHR_WT01)	20:25			21:14	28	07:08 (KLZ_WT16)	21:56	40	07:06 (KLZ_WT16)
7	08:48			08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		06:34 (SAM_WT07)	05:33		06:01 (KLZ_WT21)
	16:55			17:46			18:35	2	07:44 (RHR_WT01)	20:27			21:16	32	07:09 (KLZ_WT16)	21:56	39	07:05 (KLZ_WT16)
8	08:48			08:13			07:17		07:40 (RHR_WT01)	07:08			06:08		06:32 (SAM_WT07)	05:32		06:01 (KLZ_WT21)
	16:56			17:47			18:37	2	07:42 (RHR_WT01)	20:29			21:18	33	07:09 (KLZ_WT16)	21:57	38	07:05 (KLZ_WT16)
9	08:48			08:11			07:15			07:06			06:06		06:37 (KLZ_WT16)	05:32		06:00 (KLZ_WT21)
	16:58			17:49			18:39			20:30			21:19	33	07:10 (KLZ_WT16)	21:58	37	07:04 (KLZ_WT16)
10	08:47			08:09			07:13			07:03			06:04		06:36 (KLZ_WT16)	05:31		06:00 (KLZ_WT21)
	16:59			17:51			18:40			20:32			21:21	34	07:10 (KLZ_WT16)	21:59	37	07:04 (KLZ_WT16)
11	08:46			08:08			07:11			07:01			06:03		06:35 (KLZ_WT22)	05:31		06:00 (KLZ_WT21)
	17:00			17:53			18:42			20:34			21:22	36	07:11 (KLZ_WT16)	22:00	36	07:04 (KLZ_WT16)
12	08:46			08:06			07:08		07:31 (MVN_WT01)	06:59			06:01		06:34 (KLZ_WT22)	05:30		06:00 (KLZ_WT21)
	17:02			17:55			18:44	1	07:32 (MVN_WT01)	20:35			21:24	37	07:11 (KLZ_WT16)	22:00	34	07:03 (KLZ_WT16)
13	08:45			08:04			07:06			06:57			06:00		06:34 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:03			17:56			18:45			20:37			21:25	37	07:11 (KLZ_WT16)	22:01	34	07:02 (KLZ_WT16)
14	08:45			08:02			07:04			06:55			05:58		06:32 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:05			17:58			18:47			20:39			21:27	39	07:11 (KLZ_WT16)	22:02	33	07:02 (KLZ_WT16)
15	08:44			08:00			07:02			06:53			05:57		06:32 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:06			18:00			18:49			20:40			21:28	39	07:11 (KLZ_WT16)	22:02	33	07:02 (KLZ_WT16)
16	08:43			07:58			06:59			06:50		07:13 (KLZ_WT08)	05:55		06:32 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:08			18:02			18:51			20:42	2	07:15 (KLZ_WT08)	21:30	40	07:12 (KLZ_WT16)	22:03	31	07:01 (KLZ_WT16)
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT08)	05:54		06:31 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:09			18:04			18:52			20:43	4	07:15 (KLZ_WT08)	21:31	40	07:11 (KLZ_WT16)	22:03	30	07:01 (KLZ_WT16)
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT08)	05:52		06:31 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:11			18:05			18:54			20:45	5	07:14 (KLZ_WT08)	21:33	40	07:11 (KLZ_WT16)	22:03	31	07:01 (KLZ_WT16)
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT19)	05:51		06:31 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:13			18:07			18:56			20:47	6	07:13 (KLZ_WT08)	21:34	40	07:11 (KLZ_WT16)	22:04	30	07:00 (KLZ_WT16)
20	08:39			07:51			06:50			06:42		07:05 (KLZ_WT19)	05:50		06:32 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:14			18:09			18:57			20:48	6	07:11 (KLZ_WT08)	21:35	40	07:12 (KLZ_WT16)	22:04	29	07:00 (KLZ_WT16)
21	08:38			07:49			06:48			06:40		07:03 (KLZ_WT19)	05:48		06:32 (KLZ_WT22)	05:30		06:00 (KLZ_WT21)
	17:16			18:11			18:59			20:50	6	07:09 (KLZ_WT19)	21:37	40	07:12 (KLZ_WT16)	22:04	29	07:01 (KLZ_WT16)
22	08:37			07:47			06:46			06:38		07:01 (KLZ_WT19)	05:47		06:31 (KLZ_WT22)	05:30		06:00 (KLZ_WT21)
	17:17			18:13			19:01			20:52	8	07:09 (KLZ_WT19)	21:38	39	07:10 (KLZ_WT16)	22:05	29	07:01 (KLZ_WT16)
23	08:36			07:45			06:44			06:36		06:59 (KLZ_WT19)	05:46		06:12 (KLZ_WT23)	05:30		06:00 (KLZ_WT21)
	17:19			18:14			19:02			20:53	9	07:08 (KLZ_WT19)	21:40	41	07:10 (KLZ_WT16)	22:05	29	07:01 (KLZ_WT16)
24	08:35			07:43		08:06 (ALB_WT01)	06:41			06:34		06:57 (KLZ_WT19)	05:45		06:11 (KLZ_WT23)	05:31		06:00 (KLZ_WT21)
	17:21			18:16	2	08:08 (ALB_WT01)	19:04			20:55	10	07:07 (KLZ_WT19)	21:41	43	07:10 (KLZ_WT16)	22:05	31	07:02 (KLZ_WT16)
25	08:34			07:41		08:04 (ALB_WT01)	06:39			06:32		06:55 (KLZ_WT19)	05:43		06:10 (KLZ_WT23)	05:31		06:01 (KLZ_WT21)
	17:23			18:18	4	08:08 (ALB_WT01)	19:06			20:57	11	07:06 (KLZ_WT19)	21:42	43	07:10 (KLZ_WT16)	22:05	31	07:03 (KLZ_WT16)
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30		06:56 (KLZ_WT19)	05:42		06:09 (KLZ_WT23)	05:31		06:01 (KLZ_WT21)
	17:24			18:20	6	08:08 (ALB_WT01)	19:07			20:58	9	07:05 (KLZ_WT19)	21:43	43	07:09 (KLZ_WT16)	22:05	31	07:03 (KLZ_WT16)
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28		06:58 (KLZ_WT19)	05:41		06:08 (KLZ_WT23)	05:32		06:02 (KLZ_WT21)
	17:26			18:21	8	08:08 (ALB_WT01)	19:09			21:00	4	07:02 (KLZ_WT19)	21:45	45	07:09 (KLZ_WT16)	22:05	31	07:04 (KLZ_WT16)
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26			05:40		06:08 (KLZ_WT21)	05:32		06:02 (KLZ_WT21)
	17:28			18:23	9	08:06 (ALB_WT01)	19:11			21:01			21:46	45	07:10 (KLZ_WT16)	22:05	33	07:05 (KLZ_WT16)
29	08:28						07:30			06:24			05:39		06:07 (KLZ_WT21)	05:33		06:03 (KLZ_WT21)
	17:29						20:12			21:03			21:47	44	07:09 (KLZ_WT16)	22:05	34	07:06 (KLZ_WT16)
30	08:27						07:28			06:22			05:38		06:06 (KLZ_WT21)	05:33		06:03 (KLZ_WT21)
	17:31						20:14			21:05			21:48	44	07:08 (KLZ_WT16)	22:04	35	07:06 (KLZ_WT16)
31	08:26						07:26						05:37		06:05 (KLZ_WT21)			
	17:33						20:15						21:49	45	07:08 (KLZ_WT16)			
Potential sun hours	262			279			367			414			482			494		
Total, worst case		19			29			11			80			1122			1038	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,53			0,55			0,56			0,65			0,68			0,69	
Total reduction		0,13			0,16			0,21			0,29			0,30			0,30	
Total, real		2			5			2			23			340			309	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September	October			November	December		
1	05:34		06:04 (KLZ_WT21)	06:09		06:45 (KLZ_WT16)	06:57	07:45			07:37	08:26		
	22:04	34	07:07 (KLZ_WT16)	21:34	36	07:21 (KLZ_WT16)	20:33	19:26			17:21	16:42		
2	05:35		06:04 (KLZ_WT21)	06:11		06:46 (KLZ_WT16)	06:59	07:46		08:11 (MVN_WT01)	07:38	08:27		
	22:04	36	07:08 (KLZ_WT16)	21:32	35	07:21 (KLZ_WT16)	20:31	19:23	1	08:12 (MVN_WT01)	17:19	16:42		
3	05:35		06:05 (KLZ_WT21)	06:12		06:46 (KLZ_WT16)	07:00	07:48			07:40	08:29		
	22:04	36	07:09 (KLZ_WT16)	21:30	34	07:20 (KLZ_WT16)	20:29	19:21			17:18	16:41		
4	05:36		06:06 (KLZ_WT21)	06:14		06:47 (KLZ_WT16)	07:02	07:49			07:42	08:30		
	22:03	37	07:10 (KLZ_WT16)	21:29	33	07:20 (KLZ_WT16)	20:27	19:19			17:16	16:41		
5	05:37		06:07 (KLZ_WT21)	06:15		06:43 (SAM_WT07)	07:04	07:51			07:44	08:31		
	22:03	37	07:11 (KLZ_WT16)	21:27	32	07:19 (KLZ_WT16)	20:24	19:17			17:14	16:40		
6	05:38		06:07 (KLZ_WT21)	06:17		06:44 (SAM_WT07)	07:05	07:53		08:17 (RHR_WT01)	07:45	08:33		
	22:02	39	07:11 (KLZ_WT16)	21:25	31	07:18 (KLZ_WT16)	20:22	19:14	2	08:19 (RHR_WT01)	17:12	16:40		
7	05:39		06:08 (KLZ_WT21)	06:18		06:49 (KLZ_WT16)	07:07	07:54		08:19 (RHR_WT01)	07:47	08:34		
	22:02	41	07:12 (KLZ_WT16)	21:24	29	07:18 (KLZ_WT16)	20:20	19:12	2	08:21 (RHR_WT01)	17:11	16:39		
8	05:39		06:09 (KLZ_WT21)	06:20		06:50 (KLZ_WT16)	07:08	07:56			07:49	08:35		
	22:01	42	07:13 (KLZ_WT16)	21:22	26	07:16 (KLZ_WT16)	20:18	19:10			17:09	16:39		
9	05:40		06:10 (KLZ_WT21)	06:21		06:52 (KLZ_WT16)	07:10	07:58			07:51	08:36		09:23 (ATS_WT01)
	22:00	43	07:14 (KLZ_WT16)	21:20	23	07:15 (KLZ_WT16)	20:16	19:08			17:08	16:39	4	09:27 (ATS_WT01)
10	05:41		06:11 (KLZ_WT21)	06:23		06:53 (KLZ_WT16)	07:11	07:59			07:52	08:37		09:22 (ATS_WT01)
	22:00	43	07:14 (KLZ_WT16)	21:18	20	07:13 (KLZ_WT16)	20:13	19:06			17:06	16:38	7	09:29 (ATS_WT01)
11	05:42		06:12 (KLZ_WT21)	06:24		06:55 (KLZ_WT16)	07:13	08:01			07:54	08:38		09:22 (ATS_WT01)
	21:59	44	07:15 (KLZ_WT16)	21:16	17	07:12 (KLZ_WT16)	20:11	19:03			17:04	16:38	8	09:30 (ATS_WT01)
12	05:43		06:13 (KLZ_WT21)	06:26		06:58 (KLZ_WT16)	07:14	08:03			07:56	08:39		09:22 (ATS_WT01)
	21:58	44	07:16 (KLZ_WT16)	21:14	10	07:08 (KLZ_WT16)	20:09	19:01			17:03	16:38	9	09:31 (ATS_WT01)
13	05:44		06:14 (KLZ_WT21)	06:27			07:16	08:04		08:32 (ALB_WT01)	07:57	08:40		09:22 (ATS_WT01)
	21:57	45	07:17 (KLZ_WT16)	21:13			20:06	18:59	6	08:38 (ALB_WT01)	17:02	16:38	10	09:32 (ATS_WT01)
14	05:46		06:15 (KLZ_WT21)	06:29			07:18	08:06		08:31 (ALB_WT01)	07:59	08:41		09:22 (ATS_WT01)
	21:56	45	07:17 (KLZ_WT16)	21:11			20:04	18:57	8	08:39 (ALB_WT01)	17:00	16:38	10	09:32 (ATS_WT01)
15	05:47		06:16 (KLZ_WT21)	06:31			07:19	08:07		08:33 (ALB_WT01)	08:01	08:42		09:22 (ATS_WT01)
	21:56	45	07:18 (KLZ_WT16)	21:09			20:02	18:55	7	08:40 (ALB_WT01)	16:59	16:38	11	09:33 (ATS_WT01)
16	05:48		06:17 (KLZ_WT23)	06:32		07:05 (KLZ_WT19)	07:21	08:09		08:35 (ALB_WT01)	08:03	08:43		09:23 (ATS_WT01)
	21:55	44	07:18 (KLZ_WT16)	21:07	5	07:10 (KLZ_WT19)	20:00	18:53	6	08:41 (ALB_WT01)	16:57	16:38	11	09:34 (ATS_WT01)
17	05:49		06:18 (KLZ_WT23)	06:34		07:02 (KLZ_WT19)	07:22	08:11		08:36 (ALB_WT01)	08:04	08:44		09:23 (ATS_WT01)
	21:54	45	07:19 (KLZ_WT16)	21:05	10	07:12 (KLZ_WT19)	19:57	18:51	3	08:39 (ALB_WT01)	16:56	16:39	12	09:35 (ATS_WT01)
18	05:50		06:19 (KLZ_WT23)	06:35		07:02 (KLZ_WT19)	07:24	08:13		08:38 (ALB_WT01)	08:06	08:45		09:23 (ATS_WT01)
	21:53	44	07:19 (KLZ_WT16)	21:03	11	07:13 (KLZ_WT19)	19:55	18:48	1	08:39 (ALB_WT01)	16:55	16:39	12	09:35 (ATS_WT01)
19	05:51		06:21 (KLZ_WT23)	06:37		07:03 (KLZ_WT19)	07:25	08:14			08:08	08:45		09:24 (ATS_WT01)
	21:51	43	07:20 (KLZ_WT16)	21:01	10	07:13 (KLZ_WT19)	19:53	18:46			16:54	16:39	12	09:36 (ATS_WT01)
20	05:53		06:22 (KLZ_WT23)	06:38		07:05 (KLZ_WT19)	07:27	08:16			08:09	08:46		09:24 (ATS_WT01)
	21:50	42	07:21 (KLZ_WT16)	20:59	9	07:14 (KLZ_WT19)	19:51	18:44			16:52	16:40	13	09:37 (ATS_WT01)
21	05:54		06:23 (KLZ_WT23)	06:40		07:06 (KLZ_WT19)	07:29	08:18			08:11	08:47		09:24 (ATS_WT01)
	21:49	40	07:21 (KLZ_WT16)	20:57	7	07:13 (KLZ_WT19)	19:48	18:42			16:51	16:40	13	09:37 (ATS_WT01)
22	05:55		06:41 (KLZ_WT22)	06:42		07:08 (KLZ_WT19)	07:30	08:19			08:12	08:47		09:25 (ATS_WT01)
	21:48	40	07:21 (KLZ_WT16)	20:55	5	07:13 (KLZ_WT19)	19:46	18:40			16:50	16:40	13	09:38 (ATS_WT01)
23	05:57		06:41 (KLZ_WT22)	06:43		07:09 (KLZ_WT19)	07:32	08:21			08:14	08:48		09:25 (ATS_WT01)
	21:47	40	07:21 (KLZ_WT16)	20:53	6	07:15 (KLZ_WT08)	19:44	18:38			16:49	16:41	13	09:38 (ATS_WT01)
24	05:58		06:42 (KLZ_WT22)	06:45		07:11 (KLZ_WT08)	07:33	08:23			08:16	08:48		09:26 (ATS_WT01)
	21:45	40	07:22 (KLZ_WT16)	20:51	6	07:17 (KLZ_WT08)	19:41	18:36			16:48	16:42	12	09:38 (ATS_WT01)
25	05:59		06:42 (KLZ_WT22)	06:46		07:12 (KLZ_WT08)	07:35	07:24			08:17	08:48		09:27 (ATS_WT01)
	21:44	40	07:22 (KLZ_WT16)	20:48	5	07:17 (KLZ_WT08)	19:39	17:34			16:47	16:42	12	09:39 (ATS_WT01)
26	06:01		06:42 (KLZ_WT22)	06:48		07:14 (KLZ_WT08)	07:37	07:26			08:19	08:49		09:27 (ATS_WT01)
	21:43	40	07:22 (KLZ_WT16)	20:46	4	07:18 (KLZ_WT08)	19:37	17:32			16:46	16:43	12	09:39 (ATS_WT01)
27	06:02		06:43 (KLZ_WT22)	06:49		07:15 (KLZ_WT08)	07:38	07:28			08:20	08:49		09:28 (ATS_WT01)
	21:41	40	07:23 (KLZ_WT16)	20:44	2	07:17 (KLZ_WT08)	19:35	17:30			16:45	16:44	11	09:39 (ATS_WT01)
28	06:03		06:43 (KLZ_WT22)	06:51			07:40	07:30			08:22	08:49		09:28 (ATS_WT01)
	21:40	39	07:22 (KLZ_WT16)	20:42			19:32	17:29			16:44	16:44	11	09:39 (ATS_WT01)
29	06:05		06:43 (KLZ_WT22)	06:53			07:41	07:31			08:23	08:49		09:29 (ATS_WT01)
	21:38	39	07:22 (KLZ_WT16)	20:40			19:30	17:27			16:44	16:45	10	09:39 (ATS_WT01)
30	06:06		06:44 (KLZ_WT22)	06:54			07:43	07:33			08:25	08:50		09:29 (ATS_WT01)
	21:37	38	07:22 (KLZ_WT16)	20:38			19:28	17:25			16:43	16:46	11	09:40 (ATS_WT01)
31	06:08		06:44 (KLZ_WT22)	06:56				07:35				08:50		09:30 (ATS_WT01)
	21:35	38	07:22 (KLZ_WT16)	20:36				17:23				16:47	10	09:40 (ATS_WT01)
Potential sun hours	498			451			380	333			269	248		
Total, worst case		1263			406				36				247	
Sun reduction		0,45			0,47				0,36				0,23	
Oper. time red.		0,98			0,98				0,98				0,98	
Wind dir. red.		0,68			0,67				0,55				0,53	
Total reduction		0,30			0,31				0,20				0,12	
Total, real		377			124				7				29	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (KLZ_WT19)	06:20		06:44 (KLZ_WT21)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	42	08:39 (KLZ_WT22)	21:06	53	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:43 (KLZ_WT19)	06:18		06:42 (KLZ_WT21)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	44	08:38 (KLZ_WT22)	21:08	53	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19		07:43 (KLZ_WT19)	06:17		06:41 (KLZ_WT21)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20	42	08:37 (KLZ_WT22)	21:10	55	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17		07:45 (KLZ_WT19)	06:15		06:39 (KLZ_WT21)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22	37	08:37 (KLZ_WT22)	21:11	56	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14		08:08 (KLZ_WT22)	06:13		06:37 (KLZ_WT23)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24	28	08:36 (KLZ_WT22)	21:13	56	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12		08:09 (KLZ_WT22)	06:11		06:38 (KLZ_WT23)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25	26	08:35 (KLZ_WT22)	21:14	55	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10		08:09 (KLZ_WT22)	06:09		06:38 (KLZ_WT23)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27	23	08:32 (KLZ_WT22)	21:16	53	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08		08:10 (KLZ_WT22)	06:08		06:39 (KLZ_WT21)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29	20	08:30 (KLZ_WT22)	21:18	49	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06		08:12 (KLZ_WT22)	06:06		06:41 (KLZ_WT21)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30	16	08:28 (KLZ_WT22)	21:19	45	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03		08:15 (KLZ_WT22)	06:04		06:42 (KLZ_WT21)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32	10	08:25 (KLZ_WT22)	21:21	40	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46		07:20 (KLZ_WT22)	06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01	13	07:33 (KLZ_WT22)	20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44		07:17 (KLZ_WT22)	06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02	18	07:35 (KLZ_WT22)	20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41		07:15 (KLZ_WT22)	06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04	22	07:37 (KLZ_WT22)	20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39		07:13 (KLZ_WT22)	06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06	25	07:38 (KLZ_WT22)	20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37		07:12 (KLZ_WT22)	06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07	27	07:39 (KLZ_WT22)	20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35		07:11 (KLZ_WT22)	06:28		06:51 (KLZ_WT21)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09	28	07:39 (KLZ_WT22)	21:00	41	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32		06:55 (KLZ_WT19)	06:26		06:50 (KLZ_WT21)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11	32	07:40 (KLZ_WT22)	21:01	44	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (KLZ_WT19)	06:24		06:48 (KLZ_WT21)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	36	08:39 (KLZ_WT22)	21:03	48	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (KLZ_WT19)	06:22		06:46 (KLZ_WT21)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	38	08:39 (KLZ_WT22)	21:05	49	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (KLZ_WT19)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	40	08:39 (KLZ_WT22)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case	156			655			305			793			692			20		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,55			0,55			0,61			0,63			0,65			0,71		
Total reduction	0,13			0,16			0,22			0,29			0,29			0,31		
Total, real	21			105			68			226			201			6		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December
1	05:34	06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1 06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35	06:04 (KLZ_WT17)	06:11		06:55 (KLZ_WT21)	06:59		08:13 (KLZ_WT22)	07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1 06:05 (KLZ_WT17)	21:32	35	07:52 (KLZ_WT15)	20:31	10	08:23 (KLZ_WT22)	19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35		06:12		06:52 (KLZ_WT21)	07:00		08:10 (KLZ_WT22)	07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04		21:30	42	07:52 (KLZ_WT15)	20:29	16	08:26 (KLZ_WT22)	19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36		06:14		06:51 (KLZ_WT21)	07:02		08:08 (KLZ_WT22)	07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03		21:29	47	07:54 (KLZ_WT15)	20:27	19	08:27 (KLZ_WT22)	19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37		06:15		06:49 (KLZ_WT21)	07:03		08:06 (KLZ_WT22)	07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03		21:27	50	07:54 (KLZ_WT15)	20:24	23	08:29 (KLZ_WT22)	19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38		06:17		06:48 (KLZ_WT21)	07:05		08:04 (KLZ_WT22)	07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02		21:25	53	07:54 (KLZ_WT15)	20:22	26	08:30 (KLZ_WT22)	19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38		06:18		06:47 (KLZ_WT23)	07:07		08:03 (KLZ_WT22)	07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02		21:24	56	07:55 (KLZ_WT15)	20:20	28	08:31 (KLZ_WT22)	19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39		06:20		06:47 (KLZ_WT21)	07:08		07:39 (KLZ_WT19)	07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01		21:22	57	07:55 (KLZ_WT15)	20:18	37	08:31 (KLZ_WT22)	19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40		06:21		06:49 (KLZ_WT21)	07:10		07:38 (KLZ_WT19)	07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00		21:20	56	07:56 (KLZ_WT15)	20:16	42	08:32 (KLZ_WT22)	19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41		06:23		06:50 (KLZ_WT21)	07:11		07:36 (KLZ_WT19)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00		21:18	55	07:55 (KLZ_WT15)	20:13	44	08:31 (KLZ_WT22)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42		06:24		06:52 (KLZ_WT21)	07:13		07:38 (KLZ_WT19)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59		21:16	53	07:56 (KLZ_WT15)	20:11	42	08:31 (KLZ_WT22)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43		06:26		06:53 (KLZ_WT21)	07:14		07:39 (KLZ_WT19)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58		21:15	51	07:55 (KLZ_WT15)	20:09	42	08:31 (KLZ_WT22)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44		06:27		06:54 (KLZ_WT21)	07:16		07:41 (KLZ_WT19)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57		21:13	50	07:55 (KLZ_WT15)	20:06	40	08:31 (KLZ_WT22)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45		06:29		06:56 (KLZ_WT21)	07:18		07:42 (KLZ_WT19)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57		21:11	46	07:55 (KLZ_WT15)	20:04	36	08:30 (KLZ_WT22)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47		06:31		06:57 (KLZ_WT21)	07:19		07:44 (KLZ_WT19)	08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56		21:09	43	07:54 (KLZ_WT15)	20:02	32	08:29 (KLZ_WT22)	18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48		06:32		07:15 (KLZ_WT15)	07:21		08:00 (KLZ_WT22)	08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55		21:07	39	07:54 (KLZ_WT15)	20:00	29	08:29 (KLZ_WT22)	18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49		06:34		07:15 (KLZ_WT15)	07:22		08:00 (KLZ_WT22)	08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54		21:05	38	07:53 (KLZ_WT15)	19:57	27	08:27 (KLZ_WT22)	18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50		06:35		07:16 (KLZ_WT15)	07:24		08:01 (KLZ_WT22)	08:13			08:06			08:45
	21:53		21:03	37	07:53 (KLZ_WT15)	19:55	25	08:26 (KLZ_WT22)	18:48			16:55			16:39
19	05:51		06:37		07:16 (KLZ_WT15)	07:25		08:02 (KLZ_WT22)	08:14			08:08			08:45
	21:51		21:01	36	07:52 (KLZ_WT15)	19:53	22	08:24 (KLZ_WT22)	18:46			16:54			16:39
20	05:53		06:38		07:17 (KLZ_WT15)	07:27		08:03 (KLZ_WT22)	08:16			08:09			08:46
	21:50		20:59	35	07:52 (KLZ_WT15)	19:51	19	08:22 (KLZ_WT22)	18:44			16:52			16:40
21	05:54		06:40		07:17 (KLZ_WT15)	07:29		08:05 (KLZ_WT22)	08:18			08:11			08:47
	21:49		20:57	33	07:50 (KLZ_WT15)	19:48	14	08:19 (KLZ_WT22)	18:42			16:51			16:40
22	05:55		06:41		07:08 (SAM_WT07)	07:30		08:10 (KLZ_WT22)	08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48		20:55	34	07:49 (KLZ_WT15)	19:46	4	08:14 (KLZ_WT22)	18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57		06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47		20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58		06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45		20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59	07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3 07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01	07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12 07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02	07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16 07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03	07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20 07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05	07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23 07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06	07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26 07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08	07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28 07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498		451			380			333			269			248
Total, worst case		130		1079			602			282			538		
Sun reduction		0,45		0,47			0,43			0,36			0,27		
Oper. time red.		0,98		0,98			0,98			0,98			0,98		
Wind dir. red.		0,64		0,65			0,61			0,55			0,55		
Total reduction		0,28		0,30			0,26			0,19			0,14		
Total, real		37		319			155			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (KLZ_WT19)	06:20			05:37		06:24 (KLZ_WT21)
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	72	09:28 (KLZ_WT22)	21:06			21:51	15	06:39 (KLZ_WT21)
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (KLZ_WT19)	06:18			05:36		06:25 (KLZ_WT21)
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	75	09:27 (KLZ_WT22)	21:08			21:52	14	06:39 (KLZ_WT21)
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:43 (KLZ_WT19)	06:17			05:35		06:26 (KLZ_WT21)
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	75	09:27 (KLZ_WT22)	21:10			21:53	12	06:38 (KLZ_WT21)
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:43 (KLZ_WT19)	06:15			05:34		06:27 (KLZ_WT21)
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	74	09:27 (KLZ_WT22)	21:11			21:54	10	06:37 (KLZ_WT21)
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14		07:44 (KLZ_WT19)	06:13			05:34		06:28 (KLZ_WT21)
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24	71	09:26 (KLZ_WT22)	21:13			21:55	8	06:36 (KLZ_WT21)
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12		07:44 (KLZ_WT19)	06:11		06:36 (SAM_WT06)	05:33		06:30 (KLZ_WT21)
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25	68	09:25 (KLZ_WT22)	21:14	2	06:38 (SAM_WT06)	21:56	4	06:34 (KLZ_WT21)
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10		07:46 (KLZ_WT19)	06:09		06:34 (SAM_WT06)	05:32		
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27	63	09:24 (KLZ_WT22)	21:16	3	06:37 (SAM_WT06)	21:56		
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08		08:29 (KLZ_WT22)	06:08		06:32 (KLZ_WT23)	05:32		
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29	55	09:24 (KLZ_WT22)	21:17	4	06:36 (SAM_WT06)	21:57		
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06		08:29 (KLZ_WT22)	06:06		06:31 (KLZ_WT21)	05:31		
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30	54	09:23 (KLZ_WT22)	21:19	6	06:37 (KLZ_WT23)	21:58		
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03		08:29 (KLZ_WT22)	06:04		06:29 (KLZ_WT21)	05:31		
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32	54	09:23 (KLZ_WT22)	21:21	9	06:38 (KLZ_WT23)	21:59		
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01		08:30 (KLZ_WT22)	06:03		06:28 (KLZ_WT21)	05:31		
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34	52	09:22 (KLZ_WT22)	21:22	11	06:39 (KLZ_WT21)	22:00		
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59		08:29 (KLZ_WT22)	06:01		06:26 (KLZ_WT21)	05:30		
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35	51	09:20 (KLZ_WT22)	21:24	13	06:39 (KLZ_WT21)	22:00		
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57		08:29 (KLZ_WT22)	06:00		06:25 (KLZ_WT21)	05:30		
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37	50	09:19 (KLZ_WT22)	21:25	15	06:40 (KLZ_WT21)	22:01		
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55		08:30 (KLZ_WT22)	05:58		06:23 (KLZ_WT21)	05:30		
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39	47	09:17 (KLZ_WT22)	21:27	17	06:40 (KLZ_WT21)	22:02		
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53		08:31 (KLZ_WT22)	05:57		06:22 (KLZ_WT21)	05:30		
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40	45	09:16 (KLZ_WT22)	21:28	19	06:41 (KLZ_WT21)	22:02		
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50		08:32 (KLZ_WT22)	05:55		06:21 (KLZ_WT21)	05:30		
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42	43	09:15 (KLZ_WT22)	21:30	21	06:42 (KLZ_WT21)	22:03		
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48		08:33 (KLZ_WT22)	05:54		06:19 (KLZ_WT21)	05:30		
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43	40	09:13 (KLZ_WT22)	21:31	23	06:42 (KLZ_WT21)	22:03		
18	08:41		09:09 (RHR_WT03)	07:55			06:55		07:55 (KLZ_WT22)	06:46		08:34 (KLZ_WT22)	05:52		06:18 (KLZ_WT21)	05:30		
	17:11	13	09:23 (ALB_WT01)	18:05			18:54	18	08:13 (KLZ_WT22)	20:45	37	09:11 (KLZ_WT22)	21:33	24	06:42 (KLZ_WT21)	22:03		
19	08:40		09:08 (RHR_WT03)	07:53			06:53		07:51 (KLZ_WT22)	06:44		08:35 (KLZ_WT22)	05:51		06:19 (KLZ_WT21)	05:30		
	17:13	13	09:23 (ALB_WT01)	18:07			18:56	25	08:16 (KLZ_WT22)	20:47	34	09:09 (KLZ_WT22)	21:34	23	06:42 (KLZ_WT21)	22:04		
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50		07:49 (KLZ_WT22)	06:42		08:37 (KLZ_WT22)	05:49		06:19 (KLZ_WT21)	05:30		
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57	30	08:19 (KLZ_WT22)	20:48	30	09:07 (KLZ_WT22)	21:35	24	06:43 (KLZ_WT21)	22:04		
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48		07:45 (KLZ_WT22)	06:40		08:38 (KLZ_WT22)	05:48		06:19 (KLZ_WT21)	05:30		
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59	35	08:20 (KLZ_WT22)	20:50	26	09:04 (KLZ_WT22)	21:37	24	06:43 (KLZ_WT21)	22:04		
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:18 (KLZ_WT21)	05:30		
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	40	08:22 (KLZ_WT22)	20:52	22	09:01 (KLZ_WT22)	21:38	24	06:42 (KLZ_WT21)	22:05		
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:19 (KLZ_WT21)	05:30		
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	45	08:24 (KLZ_WT22)	20:53	15	08:56 (KLZ_WT22)	21:40	23	06:42 (KLZ_WT21)	22:05		
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44		06:19 (KLZ_WT21)	05:31		
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	50	08:25 (KLZ_WT22)	20:55	5	07:02 (SAM_WT07)	21:41	23	06:42 (KLZ_WT21)	22:05		
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43		06:19 (KLZ_WT21)	05:31		
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	53	08:25 (KLZ_WT22)	20:57	6	07:01 (SAM_WT07)	21:42	22	06:41 (KLZ_WT21)	22:05		
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42		06:20 (KLZ_WT21)	05:31		
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	51	08:26 (KLZ_WT22)	20:58	7	07:00 (SAM_WT07)	21:43	21	06:41 (KLZ_WT21)	22:05		
27	08:31		08:57 (RHR_WT02)	07:36			06:35		07:36 (KLZ_WT22)	06:28			05:41		06:20 (KLZ_WT21)	05:32		
	17:26	3	09:00 (RHR_WT02)	18:21			19:09	51	08:27 (KLZ_WT22)	21:00			21:45	21	06:41 (KLZ_WT21)	22:05		
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT19)	06:26			05:40		06:22 (KLZ_WT21)	05:32		
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	57	08:27 (KLZ_WT22)	21:01			21:46	19	06:41 (KLZ_WT21)	22:05		
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (KLZ_WT19)	06:24			05:39		06:22 (KLZ_WT21)	05:33		
	17:29	4	08:58 (RHR_WT02)				20:12	62	09:27 (KLZ_WT22)	21:03			21:47	19	06:41 (KLZ_WT21)	22:05		
30	08:27						07:28		07:50 (KLZ_WT19)	06:22			05:38		06:23 (KLZ_WT21)	05:33		
	17:31						20:14	65	09:27 (KLZ_WT22)	21:05			21:48	17	06:40 (KLZ_WT21)	22:04		
31	08:26						07:26		07:48 (KLZ_WT19)				05:37		06:23 (KLZ_WT21)			
	17:33						20:15	69	09:27 (KLZ_WT22)				21:49	16	06:39 (KLZ_WT21)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		779			33			753			1171			443			63	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,56			0,58			0,58			0,69			0,69	
Total reduction		0,16			0,16			0,21			0,26			0,31			0,30	
Total, real		122			5			162			309			137			19	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (KLZ_WT21)	06:57		08:28 (KLZ_WT22)	07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04			21:34	12	06:49 (KLZ_WT21)	20:33	53	09:21 (KLZ_WT22)	19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35			06:11		06:39 (KLZ_WT21)	06:59		08:27 (KLZ_WT22)	07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04			21:32	10	06:49 (KLZ_WT21)	20:31	54	09:21 (KLZ_WT22)	19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35			06:12		06:40 (KLZ_WT21)	07:00		08:27 (KLZ_WT22)	07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04			21:30	8	06:48 (KLZ_WT23)	20:29	54	09:21 (KLZ_WT22)	19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36			06:14		06:41 (KLZ_WT21)	07:02		08:26 (KLZ_WT22)	07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03			21:29	5	06:46 (KLZ_WT23)	20:27	55	09:21 (KLZ_WT22)	19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37			06:15		06:43 (KLZ_WT23)	07:03		07:43 (KLZ_WT19)	07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03			21:27	4	06:47 (SAM_WT06)	20:24	64	09:22 (KLZ_WT22)	19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38			06:17		06:44 (SAM_WT06)	07:05		07:40 (KLZ_WT19)	07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02			21:25	3	06:47 (SAM_WT06)	20:22	68	09:21 (KLZ_WT22)	19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38		06:35 (KLZ_WT21)	06:18		06:46 (SAM_WT06)	07:07		07:39 (KLZ_WT19)	07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02	6	06:41 (KLZ_WT21)	21:24	1	06:47 (SAM_WT06)	20:20	71	09:21 (KLZ_WT22)	19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39		06:34 (KLZ_WT21)	06:20			07:08		07:37 (KLZ_WT19)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01	9	06:43 (KLZ_WT21)	21:22			20:18	74	09:21 (KLZ_WT22)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40		06:33 (KLZ_WT21)	06:21			07:10		07:37 (KLZ_WT19)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00	11	06:44 (KLZ_WT21)	21:20			20:15	75	09:21 (KLZ_WT22)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41		06:33 (KLZ_WT21)	06:23			07:11		07:36 (KLZ_WT19)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00	13	06:46 (KLZ_WT21)	21:18			20:13	75	09:20 (KLZ_WT22)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42		06:32 (KLZ_WT21)	06:24			07:13		07:38 (KLZ_WT19)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59	15	06:47 (KLZ_WT21)	21:16			20:11	72	09:20 (KLZ_WT22)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43		06:32 (KLZ_WT21)	06:26			07:14		07:39 (KLZ_WT19)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58	15	06:47 (KLZ_WT21)	21:14			20:09	70	09:19 (KLZ_WT22)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44		06:31 (KLZ_WT21)	06:27			07:16		07:41 (KLZ_WT19)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57	17	06:48 (KLZ_WT21)	21:13			20:06	67	09:19 (KLZ_WT22)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45		06:31 (KLZ_WT21)	06:29			07:18		07:42 (KLZ_WT19)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56	18	06:49 (KLZ_WT21)	21:11			20:04	63	09:17 (KLZ_WT22)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47		06:30 (KLZ_WT21)	06:31			07:19		07:44 (KLZ_WT19)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56	20	06:50 (KLZ_WT21)	21:09			20:02	59	09:17 (KLZ_WT22)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48		06:30 (KLZ_WT21)	06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55	20	06:50 (KLZ_WT21)	21:07	3	07:05 (SAM_WT07)	20:00	52	09:15 (KLZ_WT22)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49		06:30 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22		08:25 (KLZ_WT22)	08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54	21	06:51 (KLZ_WT21)	21:05	7	07:07 (SAM_WT07)	19:57	49	09:14 (KLZ_WT22)	18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50		06:29 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53	22	06:51 (KLZ_WT21)	21:03	6	07:08 (SAM_WT07)	19:55	54	09:14 (KLZ_WT22)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51		06:29 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51	22	06:51 (KLZ_WT21)	21:01	5	07:08 (SAM_WT07)	19:53	51	09:12 (KLZ_WT22)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53		06:29 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50	23	06:52 (KLZ_WT21)	20:59	17	09:03 (KLZ_WT22)	19:50	45	09:10 (KLZ_WT22)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54		06:29 (KLZ_WT21)	06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49	23	06:52 (KLZ_WT21)	20:57	23	09:06 (KLZ_WT22)	19:48	41	09:08 (KLZ_WT22)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55		06:29 (KLZ_WT21)	06:41		08:43 (KLZ_WT22)	07:30		08:30 (KLZ_WT22)	08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48	23	06:52 (KLZ_WT21)	20:55	26	09:09 (KLZ_WT22)	19:46	36	09:06 (KLZ_WT22)	18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56		06:29 (KLZ_WT21)	06:43		08:40 (KLZ_WT22)	07:32		08:31 (KLZ_WT22)	08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47	23	06:52 (KLZ_WT21)	20:53	31	09:11 (KLZ_WT22)	19:44	32	09:03 (KLZ_WT22)	18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58		06:29 (KLZ_WT21)	06:45		08:39 (KLZ_WT22)	07:33		08:34 (KLZ_WT22)	08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45	24	06:53 (KLZ_WT21)	20:50	34	09:13 (KLZ_WT22)	19:41	27	09:01 (KLZ_WT22)	18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59		06:29 (KLZ_WT21)	06:46		08:36 (KLZ_WT22)	07:35		08:37 (KLZ_WT22)	07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44	24	06:53 (KLZ_WT21)	20:48	38	09:14 (KLZ_WT22)	19:39	21	08:58 (KLZ_WT22)	17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48		08:35 (KLZ_WT22)	07:37		08:42 (KLZ_WT22)	07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43	23	06:52 (KLZ_WT21)	20:46	41	09:16 (KLZ_WT22)	19:37	9	08:51 (KLZ_WT22)	17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT21)	06:49		08:33 (KLZ_WT22)	07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41	22	06:52 (KLZ_WT21)	20:44	44	09:17 (KLZ_WT22)	19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT21)	06:51		08:33 (KLZ_WT22)	07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40	20	06:52 (KLZ_WT21)	20:42	45	09:18 (KLZ_WT22)	19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT21)	06:52		08:31 (KLZ_WT22)	07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38	19	06:52 (KLZ_WT21)	20:40	47	09:18 (KLZ_WT22)	19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06		06:35 (KLZ_WT21)	06:54		08:30 (KLZ_WT22)	07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37	17	06:52 (KLZ_WT21)	20:38	50	09:20 (KLZ_WT22)	19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT21)	06:56		08:29 (KLZ_WT22)				07:35						08:50		12:36 (KLZ_WT16)
	21:35	15	06:51 (KLZ_WT21)	20:35	51	09:20 (KLZ_WT22)				17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		465			511			1391			119			311			1476	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,69			0,59			0,58			0,56			0,60			0,68	
Total reduction		0,30			0,27			0,25			0,20			0,16			0,15	
Total, real		141			138			344			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		06:09 (KLZ_WT21)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	112	10:54 (KLZ_WT22)	21:06	75	19:55 (KLZ_WT15)	21:51	104	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		06:10 (KLZ_WT21)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	110	10:53 (KLZ_WT22)	21:08	76	19:56 (KLZ_WT15)	21:52	102	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (KLZ_WT19)	06:17		18:40 (KLZ_WT15)	05:35		06:10 (KLZ_WT21)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	107	10:52 (KLZ_WT22)	21:10	77	19:57 (KLZ_WT15)	21:53	101	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17		07:49 (KLZ_WT19)	06:15		18:39 (KLZ_WT15)	05:34		06:09 (KLZ_WT21)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	18	09:26 (KLZ_WT22)	20:22	105	10:52 (KLZ_WT22)	21:11	78	19:57 (KLZ_WT15)	21:54	101	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24		09:06 (KLZ_WT22)	07:14		07:50 (KLZ_WT19)	06:13		18:38 (KLZ_WT15)	05:34		06:10 (KLZ_WT21)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32	26	09:32 (KLZ_WT22)	20:24	102	10:51 (KLZ_WT22)	21:13	79	19:57 (KLZ_WT15)	21:55	101	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21		09:02 (KLZ_WT22)	07:12		07:50 (KLZ_WT19)	06:11		18:39 (KLZ_WT15)	05:33		06:10 (KLZ_WT21)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33	35	09:37 (KLZ_WT22)	20:25	98	10:49 (KLZ_WT22)	21:14	79	19:58 (KLZ_WT15)	21:56	100	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19		08:58 (KLZ_WT22)	07:10		07:52 (KLZ_WT19)	06:09		18:38 (KLZ_WT15)	05:32		06:10 (KLZ_WT21)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35	42	09:40 (KLZ_WT22)	20:27	94	10:49 (KLZ_WT22)	21:16	80	19:58 (KLZ_WT15)	21:56	100	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17		08:56 (KLZ_WT22)	07:08		09:24 (KLZ_WT22)	06:08		06:32 (SAM_WT06)	05:32		06:11 (KLZ_WT21)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37	47	09:43 (KLZ_WT22)	20:29	84	10:48 (KLZ_WT22)	21:17	81	19:57 (KLZ_WT15)	21:57	99	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15		08:53 (KLZ_WT22)	07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39	52	09:45 (KLZ_WT22)	20:30	83	10:47 (KLZ_WT22)	21:19	83	19:58 (KLZ_WT15)	21:58	99	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13		08:50 (KLZ_WT22)	07:03		09:25 (KLZ_WT22)	06:04		06:29 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40	56	09:46 (KLZ_WT22)	20:32	81	10:46 (KLZ_WT22)	21:21	86	19:58 (KLZ_WT15)	21:59	99	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11		08:48 (KLZ_WT22)	07:01		09:25 (KLZ_WT22)	06:03		06:28 (SAM_WT06)	05:31		06:12 (KLZ_WT21)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42	60	09:48 (KLZ_WT22)	20:34	79	10:44 (KLZ_WT22)	21:22	86	19:58 (KLZ_WT15)	22:00	97	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08		08:46 (KLZ_WT22)	06:59		09:25 (KLZ_WT22)	06:01		06:26 (SAM_WT06)	05:30		06:11 (KLZ_WT21)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44	64	09:50 (KLZ_WT22)	20:35	77	10:42 (KLZ_WT22)	21:24	88	19:58 (KLZ_WT15)	22:00	99	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06		08:45 (KLZ_WT22)	06:57		09:25 (KLZ_WT22)	06:00		06:25 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45	66	09:51 (KLZ_WT22)	20:37	83	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	97	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04		08:42 (KLZ_WT22)	06:55		09:25 (KLZ_WT22)	05:58		06:23 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47	69	09:51 (KLZ_WT22)	20:38	98	19:32 (KLZ_WT15)	21:27	89	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02		08:41 (KLZ_WT22)	06:53		09:26 (KLZ_WT22)	05:56		06:22 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49	72	09:53 (KLZ_WT22)	20:40	103	19:36 (KLZ_WT15)	21:28	91	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59		08:40 (KLZ_WT22)	06:50		07:13 (SAM_WT11)	05:55		06:21 (KLZ_WT23)	05:30		06:13 (KLZ_WT21)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50	74	09:54 (KLZ_WT22)	20:42	107	19:38 (KLZ_WT15)	21:30	94	19:59 (KLZ_WT15)	22:03	96	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57		08:39 (KLZ_WT22)	06:48		07:11 (SAM_WT11)	05:54		06:19 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52	76	09:55 (KLZ_WT22)	20:43	112	19:41 (KLZ_WT15)	21:31	95	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		06:18 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	80	09:54 (KLZ_WT22)	20:45	113	19:43 (KLZ_WT15)	21:33	97	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		09:29 (KLZ_WT22)	05:51		06:17 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	84	09:55 (KLZ_WT22)	20:47	111	19:44 (KLZ_WT15)	21:34	99	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		09:29 (KLZ_WT22)	05:49		06:16 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	88	09:56 (KLZ_WT22)	20:48	113	19:46 (KLZ_WT15)	21:35	100	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		09:30 (KLZ_WT22)	05:48		06:15 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	92	09:56 (KLZ_WT22)	20:50	113	19:47 (KLZ_WT15)	21:37	101	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:13 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	93	09:56 (KLZ_WT22)	20:52	115	19:49 (KLZ_WT15)	21:38	102	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:10 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:12 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	91	09:56 (KLZ_WT22)	20:53	115	19:50 (KLZ_WT15)	21:40	102	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41		08:31 (KLZ_WT22)	06:34		06:57 (SAM_WT07)	05:44		06:11 (KLZ_WT21)	05:31		06:14 (KLZ_WT21)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04	86	09:57 (KLZ_WT22)	20:55	115	19:51 (KLZ_WT15)	21:41	103	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT19)	06:32		06:55 (SAM_WT07)	05:43		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	90	09:56 (KLZ_WT22)	20:57	115	19:51 (KLZ_WT15)	21:42	104	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT19)	06:30		06:53 (SAM_WT07)	05:42		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	95	09:56 (KLZ_WT22)	20:58	113	19:52 (KLZ_WT15)	21:43	103	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (KLZ_WT19)	06:28		06:51 (SAM_WT07)	05:41		06:10 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	99	09:56 (KLZ_WT22)	21:00	111	19:53 (KLZ_WT15)	21:45	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (KLZ_WT19)	06:26		06:51 (SAM_WT07)	05:40		06:09 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	103	09:56 (KLZ_WT22)	21:01	106	19:54 (KLZ_WT15)	21:46	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (KLZ_WT19)	06:24		06:53 (SAM_WT07)	05:39		06:10 (KLZ_WT21)	05:33		06:16 (KLZ_WT21)
	17:29	3	08:57 (RHR_WT01)				20:12	106	10:55 (KLZ_WT22)	21:03	95	19:55 (KLZ_WT15)	21:47	103	19:58 (KLZ_WT15)	22:05	97	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (KLZ_WT19)	06:22		18:41 (KLZ_WT15)	05:38		06:10 (KLZ_WT21)	05:33		06:15 (KLZ_WT21)
	17:31	5	08:58 (RHR_WT01)				20:14	108	10:55 (KLZ_WT22)	21:05	74	19:55 (KLZ_WT15)	21:48	103	19:58 (KLZ_WT15)	22:04	98	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		06:09 (KLZ_WT21)			
	17:33	6	08:57 (RHR_WT01)				20:15	111	10:55 (KLZ_WT22)				21:49	104	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			2127			3044			2851			2934	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,56			0,56			0,57			0,61			0,62	
Total reduction		0,17			0,16			0,21			0,26			0,27			0,27	
Total, real		186			31			442			786			777			790	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:16 (KLZ_WT21)	06:09		06:37 (SAM_WT06)	06:57		09:24 (KLZ_WT22)	07:44		09:24 (KLZ_WT22)	07:37			08:26		09:00 (RHR_WT03)
	22:04	97	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33	79	10:43 (KLZ_WT22)	19:25	65	10:29 (KLZ_WT22)	17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		06:15 (KLZ_WT21)	06:11		06:39 (SAM_WT06)	06:59		09:23 (KLZ_WT22)	07:46		09:26 (KLZ_WT22)	07:38			08:27		09:00 (RHR_WT03)
	22:04	99	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31	81	10:44 (KLZ_WT22)	19:23	61	10:27 (KLZ_WT22)	17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		06:16 (KLZ_WT21)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48		09:27 (KLZ_WT22)	07:40			08:29		09:00 (RHR_WT03)
	22:04	98	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	83	10:45 (KLZ_WT22)	19:21	58	10:25 (KLZ_WT22)	17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		06:16 (KLZ_WT21)	06:14		06:41 (SAM_WT06)	07:02		09:21 (KLZ_WT22)	07:49		09:29 (KLZ_WT22)	07:42			08:30		09:02 (RHR_WT03)
	22:03	99	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27	84	10:45 (KLZ_WT22)	19:19	54	10:23 (KLZ_WT22)	17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		06:17 (KLZ_WT21)	06:15		06:43 (SAM_WT06)	07:03		07:49 (KLZ_WT19)	07:51		09:32 (KLZ_WT22)	07:44			08:31		09:03 (RHR_WT03)
	22:03	99	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24	94	10:46 (KLZ_WT22)	19:16	49	10:21 (KLZ_WT22)	17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		06:16 (KLZ_WT21)	06:17		18:48 (KLZ_WT15)	07:05		07:46 (KLZ_WT19)	07:53		09:33 (KLZ_WT22)	07:45			08:33		09:04 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22	98	10:45 (KLZ_WT22)	19:14	44	10:17 (KLZ_WT22)	17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		06:16 (KLZ_WT21)	06:18		18:48 (KLZ_WT15)	07:07		07:45 (KLZ_WT19)	07:54		09:36 (KLZ_WT22)	07:47			08:34		09:06 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20	102	10:46 (KLZ_WT22)	19:12	38	10:14 (KLZ_WT22)	17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		06:17 (KLZ_WT21)	06:20		18:48 (KLZ_WT15)	07:08		07:43 (KLZ_WT19)	07:56		09:40 (KLZ_WT22)	07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	102	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18	105	10:46 (KLZ_WT22)	19:10	31	10:11 (KLZ_WT22)	17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		06:17 (KLZ_WT21)	06:21		18:49 (KLZ_WT15)	07:10		07:42 (KLZ_WT19)	07:58		09:44 (KLZ_WT22)	07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	108	10:47 (KLZ_WT22)	19:08	21	10:05 (KLZ_WT22)	17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		06:17 (KLZ_WT21)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	110	10:46 (KLZ_WT22)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		06:18 (KLZ_WT21)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	102	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	113	10:47 (KLZ_WT22)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		06:18 (KLZ_WT21)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	102	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	110	10:46 (KLZ_WT22)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		06:18 (KLZ_WT21)	06:27		10:00 (KLZ_WT22)	07:16		07:41 (KLZ_WT19)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	102	20:06 (KLZ_WT15)	21:13	77	20:03 (KLZ_WT15)	20:06	108	10:46 (KLZ_WT22)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		06:18 (KLZ_WT21)	06:29		07:00 (SAM_WT07)	07:18		07:42 (KLZ_WT19)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	104	20:07 (KLZ_WT15)	21:11	97	20:02 (KLZ_WT15)	20:04	106	10:45 (KLZ_WT22)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		06:19 (KLZ_WT21)	06:30		06:57 (SAM_WT07)	07:19		07:44 (KLZ_WT19)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	103	20:07 (KLZ_WT15)	21:09	109	20:01 (KLZ_WT15)	20:02	103	10:46 (KLZ_WT22)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		06:19 (KLZ_WT21)	06:32		06:59 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	103	20:07 (KLZ_WT15)	21:07	111	20:00 (KLZ_WT15)	20:00	100	10:45 (KLZ_WT22)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		06:19 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT19)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	103	20:07 (KLZ_WT15)	21:05	115	19:59 (KLZ_WT15)	19:57	97	10:45 (KLZ_WT22)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		06:20 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT19)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	103	20:07 (KLZ_WT15)	21:03	115	19:58 (KLZ_WT15)	19:55	90	10:44 (KLZ_WT22)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		06:20 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		09:17 (KLZ_WT22)	08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	103	20:07 (KLZ_WT15)	21:01	115	19:56 (KLZ_WT15)	19:53	86	10:43 (KLZ_WT22)	18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		06:22 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:57 (KLZ_WT10)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	104	20:09 (KLZ_WT15)	20:59	114	19:55 (KLZ_WT15)	19:50	91	10:43 (KLZ_WT22)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		06:23 (KLZ_WT21)	06:40		09:36 (KLZ_WT22)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	102	20:08 (KLZ_WT15)	20:57	113	19:53 (KLZ_WT15)	19:48	93	10:42 (KLZ_WT22)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		06:24 (KLZ_WT21)	06:41		09:35 (KLZ_WT22)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	100	20:08 (KLZ_WT15)	20:55	113	19:52 (KLZ_WT15)	19:46	93	10:41 (KLZ_WT22)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		06:25 (KLZ_WT21)	06:43		09:33 (KLZ_WT22)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	100	20:08 (KLZ_WT15)	20:53	112	19:49 (KLZ_WT15)	19:44	90	10:40 (KLZ_WT22)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		06:27 (KLZ_WT21)	06:45		09:32 (KLZ_WT22)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	99	20:09 (KLZ_WT15)	20:50	112	19:48 (KLZ_WT15)	19:41	86	10:39 (KLZ_WT22)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		06:28 (KLZ_WT21)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	98	20:09 (KLZ_WT15)	20:48	113	19:45 (KLZ_WT15)	19:39	81	10:38 (KLZ_WT22)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48		07:14 (SAM_WT11)	07:36		09:20 (KLZ_WT22)	07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	96	20:09 (KLZ_WT15)	20:46	111	19:43 (KLZ_WT15)	19:37	77	10:37 (KLZ_WT22)	17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT23)	06:49		07:15 (SAM_WT11)	07:38		09:21 (KLZ_WT22)	07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	95	20:08 (KLZ_WT15)	20:44	107	19:40 (KLZ_WT15)	19:35	75	10:36 (KLZ_WT22)	17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT23)	06:51		09:28 (KLZ_WT22)	07:40		09:21 (KLZ_WT22)	07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	92	20:09 (KLZ_WT15)	20:42	102	19:37 (KLZ_WT15)	19:32	73	10:34 (KLZ_WT22)	17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT23)	06:52		09:26 (KLZ_WT22)	07:41		09:22 (KLZ_WT22)	07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	91	20:09 (KLZ_WT15)	20:40	96	19:32 (KLZ_WT15)	19:30	71	10:33 (KLZ_WT22)	17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:34 (KLZ_WT23)	06:54		09:26 (KLZ_WT22)	07:43		09:24 (KLZ_WT22)	07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	87	20:08 (KLZ_WT15)	20:38	81	19:24 (KLZ_WT15)	19:28	67	10:31 (KLZ_WT22)	17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT23)	06:56		09:24 (KLZ_WT22)				07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35	78	10:42 (KLZ_WT22)				17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3077			2952			2754			631			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,62			0,58			0,56			0,56			0,70			0,68	
Total reduction		0,27			0,26			0,24			0,20			0,18			0,15	
Total, real		838			780			657			124			99			261	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

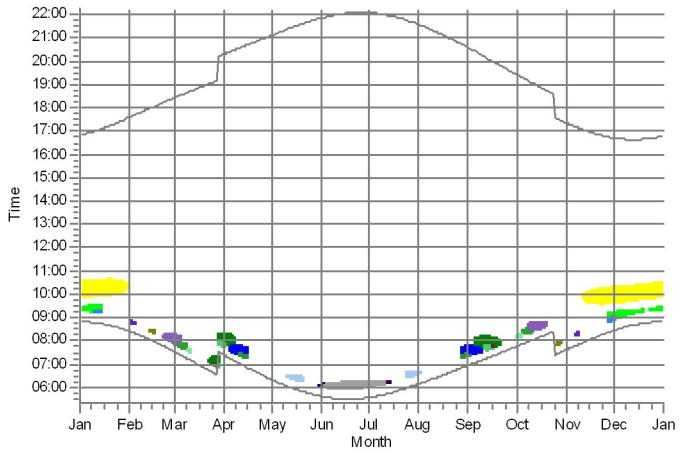
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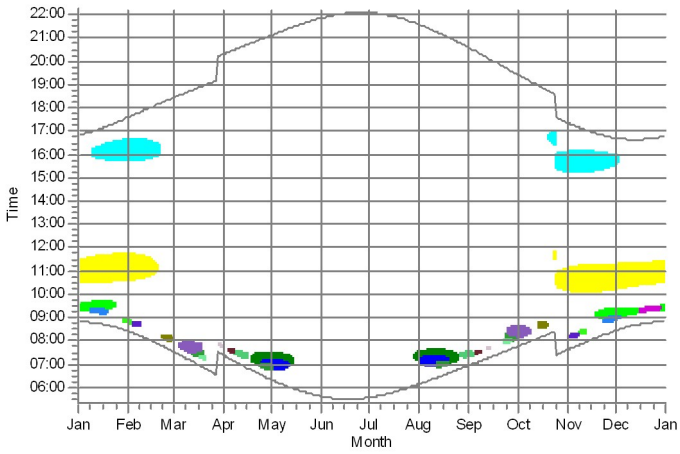
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

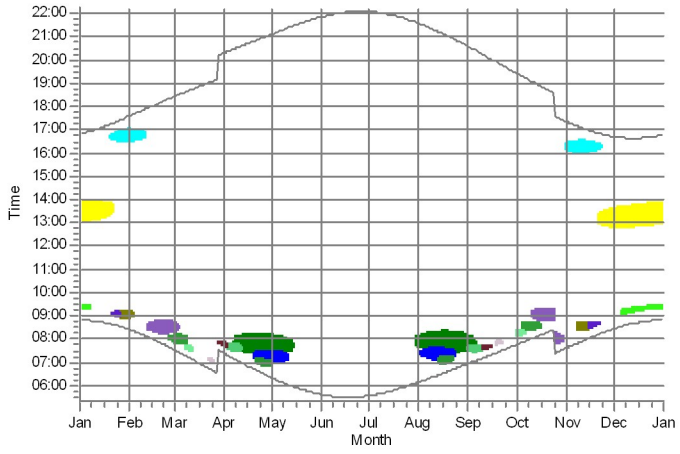
1: Hoogstraat 54, 9940 Evergem



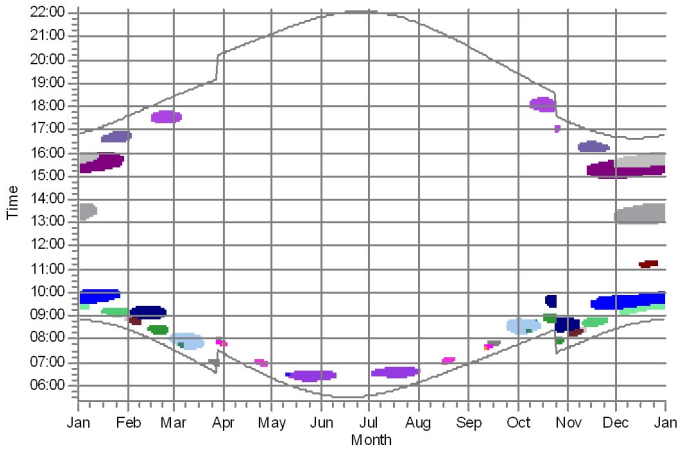
2: Pachtgoederen 2, 9940 Evergem



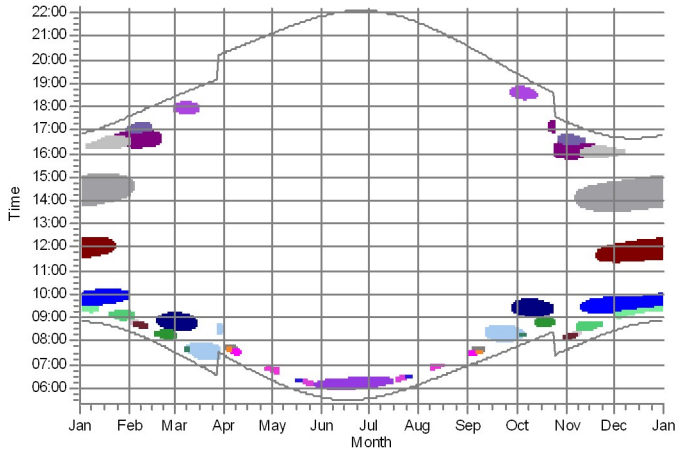
3: Pachtgoederen 2, 9940 Evergem



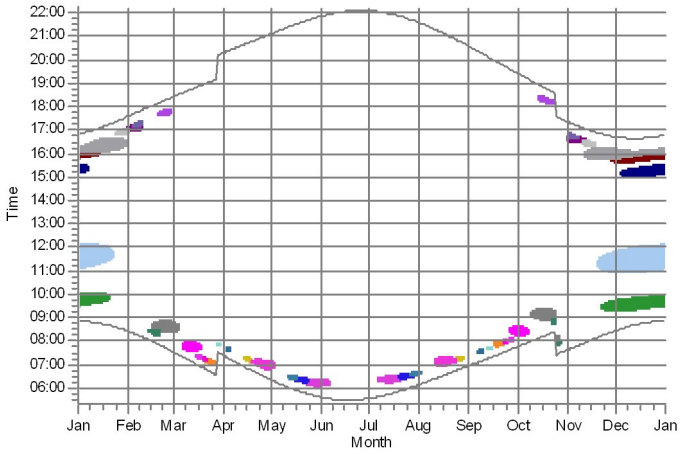
4: Ooievaarstraat 7, 9940 Evergem



5: Speidamstraat 58, 9940 Evergem



6: Rimew egel 46, 9940 Evergem



WTGs

KLZ_WT21: KLZ_WT21 Armasteel
KLZ_WT22: KLZ_WT22 Magelaanstraat
KLZ_WT23: KLZ_WT23 Stukwerkers
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)
EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)
EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

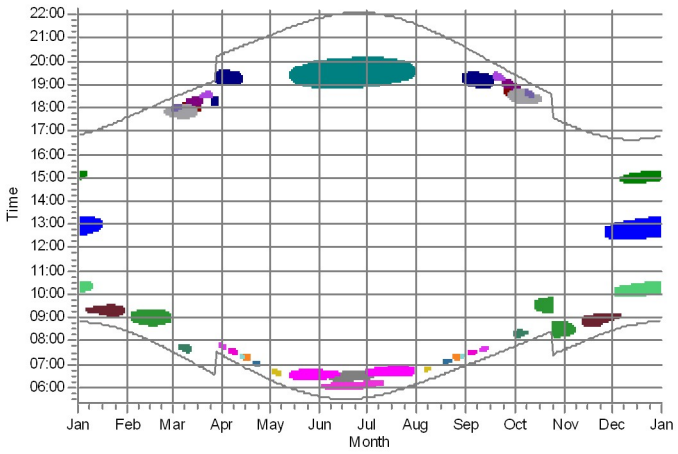
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+31 (0)88 4261 261

Calculated:
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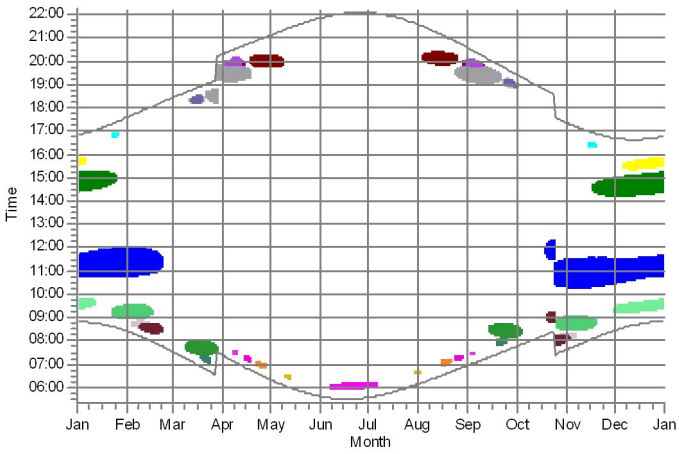
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

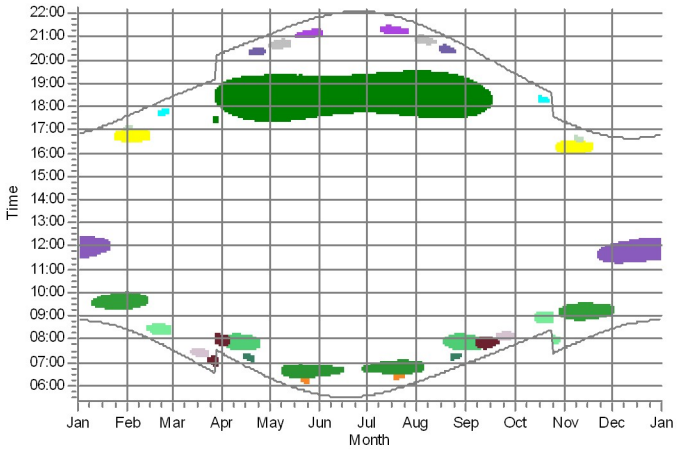
7: Christoffel Columbuslaan 23, 9042 Gent



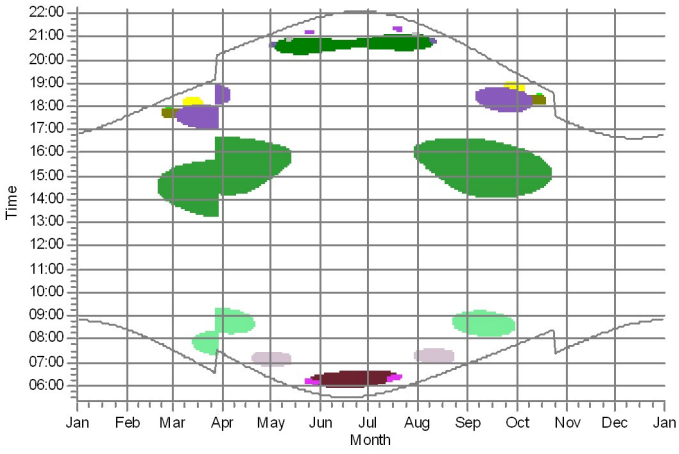
8: Christoffel Columbuslaan 23, 9042 Gent



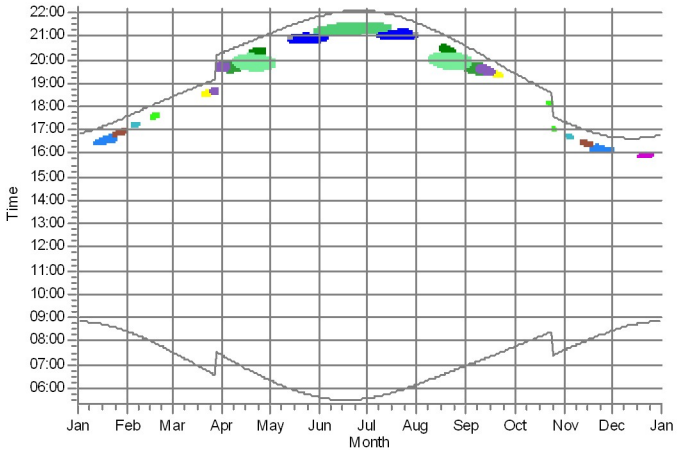
9: Willem van Rubroeckstraat 2, 9042 Gent



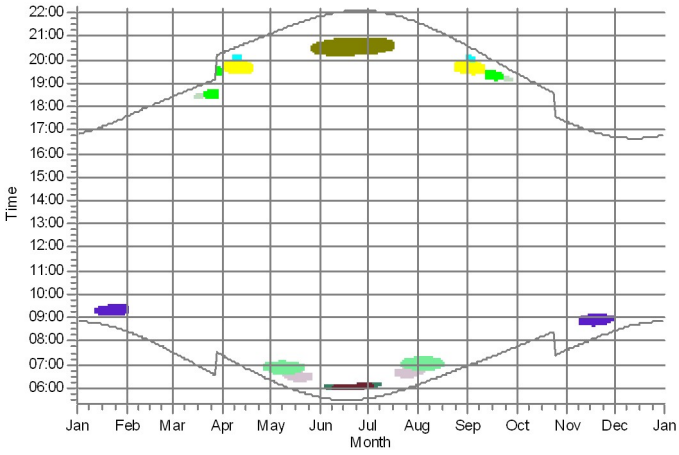
10: Arbedkaai 3, 9042 Gent



11: Schuitstraat 1, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

KLZ_WT21: KLZ_WT21 Armasteel
KLZ_WT22: KLZ_WT22 Magelaanstraat
KLZ_WT23: KLZ_WT23 Stukwerkers
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

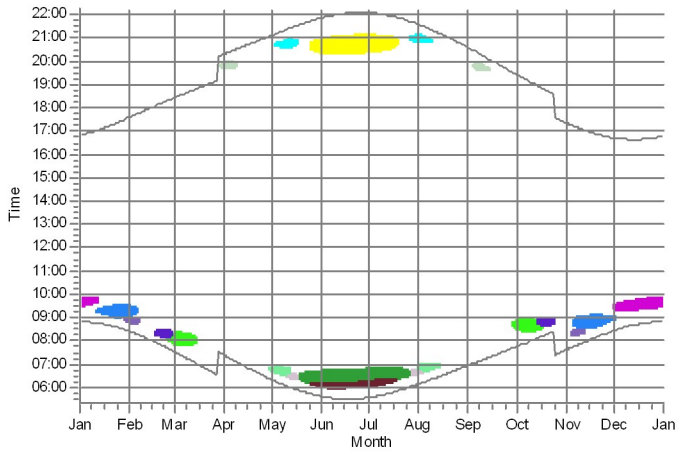
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+31 (0)88 4261 261

Calculated:
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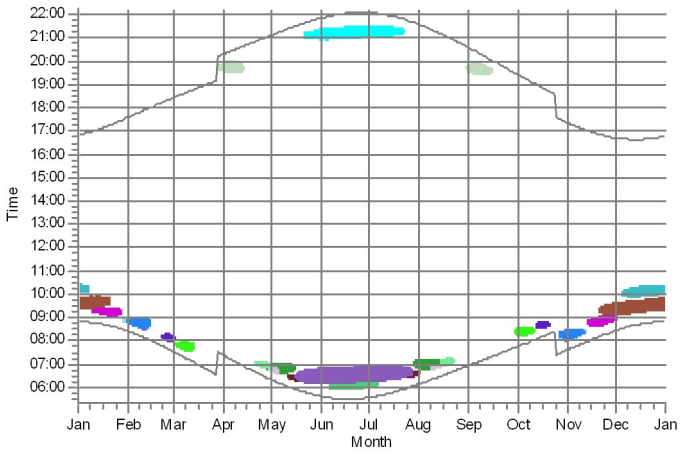
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

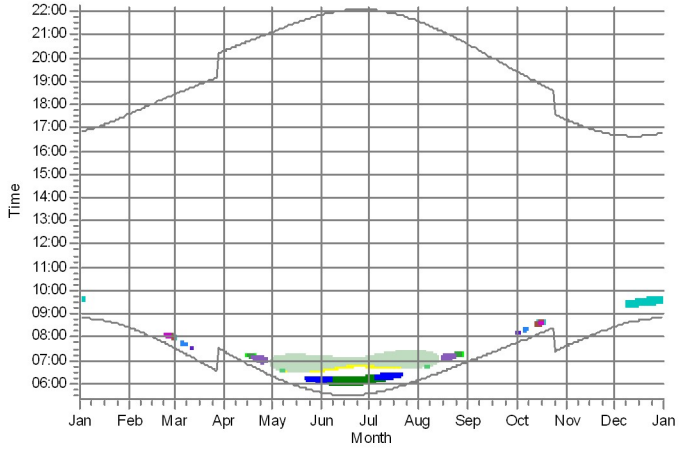
13: Doornzele Dries 107, 9940 Evergem



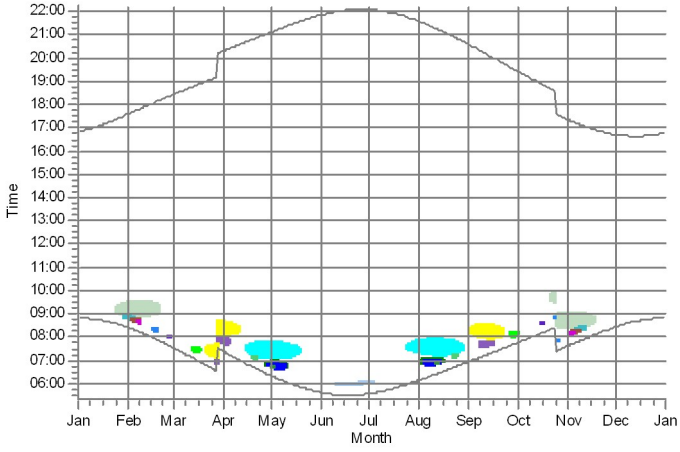
14: Abdijdreef 2, 9940 Evergem



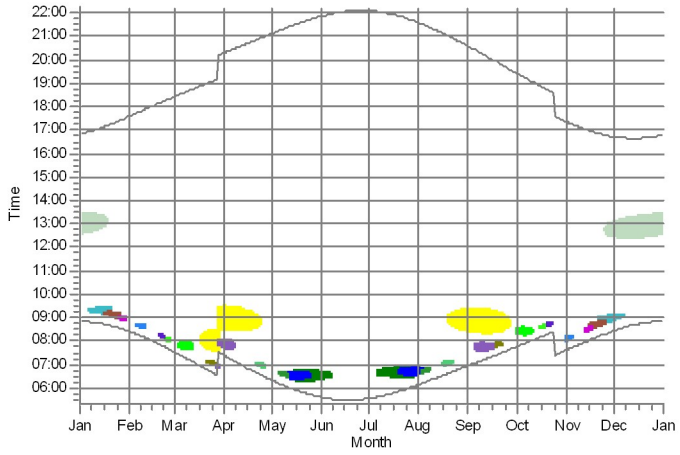
15: Hageland 41, 9940 Evergem



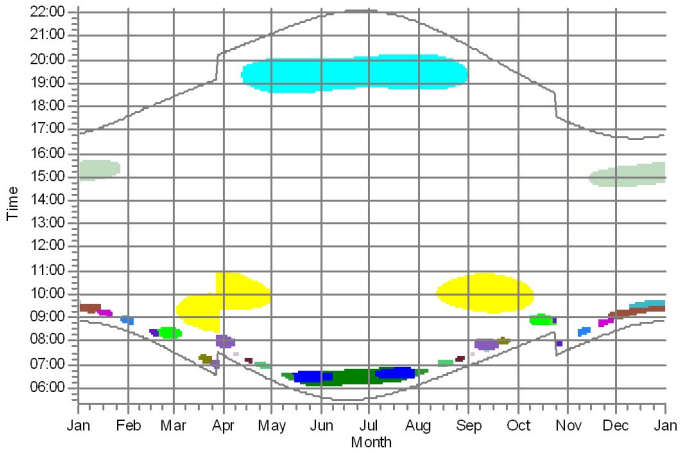
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

KLZ_WT21: KLZ_WT21 Armasteel
KLZ_WT22: KLZ_WT22 Magelaanstraat
KLZ_WT23: KLZ_WT23 Stukwerkers
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January		February	March		April		May		June	
1	08:50	14:26-15:14/48	08:24	07:32		07:23	17:59-18:52/53	06:20	06:44-08:09/85	05:36	06:04-06:39/35 17:38-19:14/96
	16:48		17:35	18:25		20:17	07:53-08:17/24	21:06	17:25-19:16/111	21:51	20:23-20:50/27
2	08:50	14:27-15:14/47	08:23	07:30		07:21	17:56-18:54/58	06:18	06:42-08:08/86	05:36	06:04-06:39/35 17:40-19:14/94
	16:49		17:36	18:26		20:19	07:52-08:16/24	21:08	17:25-19:16/111	21:52	20:25-20:51/26
3	08:49	14:28-15:13/45	08:21	07:28		07:19	17:54-18:57/63	06:16	06:41-08:08/87	05:35	06:03-06:38/35 17:40-19:14/94
	16:50		17:38	18:28		20:20	07:52-08:15/23	21:09	17:25-19:16/111	21:53	20:25-20:50/25
4	08:49	14:28-15:13/45	08:19	07:26		07:17	17:51-18:59/68	06:15	06:39-08:06/87	05:34	06:03-06:38/35 17:40-19:13/93
	16:51		17:40	18:30		20:22	07:53-08:14/21	21:11	17:26-19:16/110	21:54	20:25-20:50/25
5	08:49	14:29-15:13/44	08:18	07:24		07:14	17:49-19:01/72	06:13	06:38-06:55/17 17:25-19:16/111	05:33	06:02-06:39/37 17:41-19:14/93
	16:52		17:42	18:32		20:24	07:54-08:13/19	21:13	20:30-20:41/11 06:56-08:05/69	21:55	20:26-20:50/24
6	08:49	14:29-15:13/44	08:16	07:21		07:12	17:46-19:01/75	06:11	06:39-06:55/16 17:25-19:16/111 06:57-07:26/29	05:33	06:02-06:39/37 17:41-19:13/92
	16:54		17:44	18:33		20:25	07:55-08:10/15	21:14	20:27-20:43/16 07:27-08:05/38	21:56	20:26-20:49/23
7	08:48	14:30-15:14/44	08:15	07:19		07:10	17:45-19:03/78 07:57-08:07/10	06:09	06:39-06:54/15 17:26-19:16/110 06:57-07:25/28	05:32	06:01-06:39/38 17:42-19:14/92
	16:55		17:45	18:35		20:27	07:51-07:54/3	21:16	20:26-20:46/20 07:28-08:03/35	21:56	20:28-20:49/21
8	08:48	14:30-15:13/43	08:13	07:17		07:08	17:43-19:05/82	06:08	06:39-06:53/14 17:26-19:16/110 06:57-07:24/27	05:32	06:01-06:40/39 17:42-19:13/91
	16:56		17:47	18:37		20:29	07:44-08:01/17	21:17	20:24-20:47/23 07:28-08:01/33	21:57	20:28-20:48/20
9	08:47	14:31-15:14/43	08:11	07:15		07:05	17:41-19:06/85	06:06	06:31-06:35/4 20:23-20:48/25 07:30-08:00/30	05:31	06:00-06:39/39 17:43-19:14/91
	16:58		17:49	18:39		20:30	07:41-08:04/23	21:19	06:41-06:52/11 17:27-19:16/109 06:58-07:23/25	21:58	20:29-20:48/19
10	08:47	14:32-15:14/42	08:09	07:13		07:03	17:40-19:07/87	06:04	06:29-06:37/8 20:22-20:49/27 07:31-07:58/27	05:31	06:00-06:40/40 17:44-19:14/90
	16:59		17:51	18:40		20:32	07:38-08:06/28	21:21	06:42-06:49/7 17:27-19:16/109 06:59-07:22/23	21:59	20:30-20:48/18
11	08:46	14:32-15:14/42	08:08	07:10		07:01	17:39-19:08/89	06:03	06:28-06:39/11 17:28-19:16/108 07:00-07:21/21	05:31	06:00-06:40/40 17:45-19:14/89
	17:00		17:53	18:42		20:33	07:36-08:08/32	21:22	20:22-20:50/28 07:33-07:57/24	22:00	20:30-20:47/17
12	08:46	14:34-15:14/40	08:06	07:08		06:59	17:37-19:08/91	06:01	06:26-06:39/13 17:27-19:16/109 07:01-07:19/18	05:30	06:00-06:40/40 17:44-19:14/90
	17:02		17:54	18:44		20:35	07:33-08:08/35	21:24	20:21-20:50/29 07:34-07:55/21	22:00	20:31-20:47/16
13	08:45	14:35-15:14/39	08:04	07:06		06:57	17:35-19:09/94	05:59	06:25-06:40/15 17:28-19:16/108 07:03-07:17/14	05:30	05:59-06:40/41 17:45-19:14/89
	17:03		17:56	18:45		20:37	07:32-08:09/37	21:25	20:21-20:51/30 07:37-07:53/16	22:01	20:31-20:47/16
14	08:44	14:35-15:14/39	08:02	07:04		06:55	17:34-19:10/96	05:58	06:23-06:40/17 17:28-19:15/107 07:05-07:14/9	05:30	05:59-06:40/41 17:45-19:14/89
	17:05		17:58	18:47		20:38	07:30-08:10/40	21:27	20:20-20:51/31 07:41-07:48/7	22:02	20:32-20:47/15
15	08:44	14:36-15:14/38	08:00	07:02		06:52	17:33-19:11/98	05:56	06:22-06:41/19 17:29-19:16/107	05:30	05:59-06:40/41 17:46-19:14/88
	17:06		18:00	18:49		20:40	07:29-08:11/42	21:28	20:20-20:51/31	22:02	20:33-20:47/14
16	08:43	14:37-15:13/36	07:58	06:59		06:50	17:32-19:12/100	05:55	06:21-06:42/21 17:30-19:16/106	05:30	05:59-06:41/42 17:46-19:14/88
	17:08		18:02	18:50		20:42	07:28-08:12/44	21:30	20:20-20:52/32	22:03	20:33-20:47/14
17	08:42	14:39-15:13/34	07:56	06:57		06:48	17:31-19:12/101	05:53	06:19-06:42/23 17:29-19:15/106	05:29	05:59-06:41/42 17:47-19:15/88
	17:09		18:03	18:52		20:43	07:27-08:12/45	21:31	20:19-20:52/33	22:03	20:34-20:47/13
18	08:41	14:40-15:13/33	07:55	06:55		06:46	17:31-19:13/102	05:52	06:18-06:42/24 17:30-19:15/105	05:29	05:59-06:41/42 17:47-19:15/88
	17:11		18:05	18:54		20:45	07:26-08:13/47	21:33	20:19-20:52/33	22:03	20:34-20:47/13
19	08:40	14:42-15:12/30	07:53	06:53		06:44	20:18-20:20/2 07:26-08:13/47	05:51	06:17-06:42/25 17:31-19:15/104	05:29	05:59-06:41/42 17:47-19:15/88
	17:12		18:07	18:55		20:47	17:30-19:13/103 07:10-07:19/9	21:34	20:19-20:52/33	22:04	20:35-20:47/12
20	08:39	14:43-15:11/28	07:51	06:50		06:42	20:17-20:22/5 07:25-08:13/48	05:49	06:16-06:43/27 17:32-19:16/104	05:30	05:59-06:41/42 17:47-19:15/88
	17:14		18:09	18:57		20:48	17:29-19:14/105 07:06-07:22/16	21:35	20:20-20:53/33	22:04	20:35-20:47/12
21	08:38	14:44-15:09/25	07:49	06:48		06:40	20:16-20:23/7 07:25-08:13/48	05:48	06:15-06:43/28 17:31-19:15/104	05:30	06:00-06:41/41 17:47-19:15/88
	17:16		18:11	18:59		20:50	17:29-19:14/105 07:04-07:24/20	21:37	20:19-20:52/33	22:04	20:35-20:47/12
22	08:37	14:47-15:08/21	07:47	06:46		06:38	20:16-20:25/9 07:02-08:13/71	05:47	06:13-06:42/29 17:32-19:15/103	05:30	06:00-06:42/42 17:48-19:16/88
	17:17		18:12	19:00		20:52	17:28-19:15/107	21:38	20:19-20:52/33	22:05	20:36-20:48/12
23	08:36	14:50-15:07/17	07:45	06:44	07:06-07:10/4	06:36	20:16-20:26/10 07:01-08:13/72	05:46	06:12-06:42/30 17:33-19:15/102	05:30	06:00-06:42/42 17:48-19:16/88
	17:19		18:14	19:02		20:53	17:27-19:15/108	21:39	20:19-20:52/33	22:05	20:36-20:48/12
24	08:35	14:53-15:03/10	07:43	06:41	07:04-07:14/10	06:34	20:16-20:28/12 06:59-08:12/73	05:44	06:11-06:42/31 17:34-19:14/100	05:30	06:00-06:42/42 17:48-19:16/88
	17:21		18:16	19:04		20:55	17:27-19:15/108	21:41	20:20-20:52/32	22:05	20:35-20:48/13
25	08:34		07:41	06:39	07:01-07:15/14	06:32	20:16-20:28/12 06:58-08:12/74	05:43	06:10-06:41/31 17:34-19:14/100	05:31	06:01-06:43/42 17:49-19:17/88
	17:22		18:18	19:05		20:56	17:26-19:15/109	21:42	20:20-20:52/32	22:05	20:36-20:49/13
26	08:32		07:38	06:37	06:59-07:16/17	06:30	20:17-20:27/10 06:57-08:12/75	05:42	06:10-06:41/31 17:35-19:14/99	05:31	06:01-06:43/42 17:48-19:17/89
	17:24		18:19	19:07		20:58	17:26-19:15/109	21:43	20:20-20:52/32	22:05	20:36-20:49/13
27	08:31		07:36	06:34	06:57-07:17/20	06:28	06:51-06:52/1 17:26-19:15/109	05:41	06:10-06:41/31 17:35-19:14/99	05:32	06:02-06:43/41 17:48-19:16/88
	17:26		18:21	19:09		21:00	20:19-20:25/6 06:56-08:11/75	21:45	20:21-20:51/30	22:05	20:35-20:49/14
28	08:30		07:34	06:32	17:22-17:32/10	06:26	06:50-06:54/4 06:57-08:10/73	05:40	06:08-06:41/33 17:36-19:14/98	05:32	06:02-06:43/41 17:49-19:17/88
	17:28		18:23	19:10	06:55-07:18/23	21:01	17:25-19:15/110	21:46	20:21-20:51/30	22:05	20:35-20:50/15
29	08:28			07:30	18:13-18:41/28	06:24	06:48-06:55/7 06:56-08:11/75	05:39	06:07-06:41/34 17:37-19:15/98	05:33	06:03-06:44/41 17:48-19:17/89
	17:29			20:12	07:53-08:17/24	21:03	17:26-19:16/110	21:47	20:21-20:51/30	22:05	20:35-20:50/15
30	08:27			07:28	18:07-18:46/39	06:22	06:46-06:55/9 06:56-08:10/74	05:38	06:06-06:40/34 17:38-19:14/96	05:33	06:03-06:44/41 17:48-19:18/90
	17:31			20:14	07:53-08:17/24	21:05	17:26-19:16/110	21:48	20:23-20:51/28	22:04	20:35-20:51/16
31	08:25			07:25	18:03-18:50/47			05:37	06:05-06:39/34 17:38-19:14/96		
	17:33			20:15	07:53-08:17/24			21:49	20:23-20:51/28		
Potential sun hours	262		279	367		415		482		495	
Sum of minutes with flicker	877		0	284		4258		5510		4398	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:44/40 17:49-19:18/89	06:09 06:37-06:49/12 17:38-19:26/108 07:11-07:30/19	06:57 17:38-19:07/89	07:44	07:37	08:26 14:14-14:56/42
	22:04 20:35-20:52/17	21:34 20:31-21:00/29 07:44-08:06/22	20:33 07:35-08:07/32	19:25	17:21	16:42
2	05:34 06:04-06:44/40 17:48-19:18/90	06:11 06:39-06:49/10 20:31-20:59/28 07:43-08:08/25	06:59 17:38-19:05/87	07:46	07:38	08:27 14:15-14:57/42
	22:04 20:34-20:52/18	21:32 06:55-06:58/3 17:38-19:27/109 07:10-07:32/22	20:31 07:36-08:04/28	19:23	17:19	16:41
3	05:35 06:05-06:44/39 17:48-19:19/91	06:12 06:40-06:47/7 20:33-20:59/26 07:41-08:10/29	07:00 17:39-19:04/85	07:48	07:40	08:29 14:15-14:57/42
	22:04 20:34-20:53/19	21:30 06:52-07:01/9 17:37-19:26/109 07:09-07:33/24	20:29 07:39-08:02/23	19:21	17:17	16:41
4	05:36 06:06-06:45/39 17:48-19:19/91	06:14 06:41-06:44/3 20:33-20:57/24 07:39-08:10/31	07:02 17:40-19:02/82	07:49	07:42	08:30 14:15-14:58/43
	22:03 20:34-20:54/20	21:29 06:51-07:03/12 17:36-19:26/110 07:08-07:33/25	20:27 07:41-07:58/17	19:19	17:16	16:40
5	05:37 06:07-06:45/38 17:48-19:19/91	06:15 06:49-07:03/14 17:36-19:26/110 07:07-07:34/27	07:03 17:42-19:00/78 07:54-08:04/10	07:51	07:43	08:31 14:15-14:59/44
	22:03 20:33-20:54/21	21:27 20:35-20:57/22 07:38-08:12/34	20:24 07:48-07:52/4	19:16	17:14	16:40
6	05:37 06:07-06:45/38 17:48-19:20/92	06:17 06:48-07:04/16 17:36-19:26/110 07:06-07:35/29	07:05 17:42-18:58/76	07:53	07:45	08:33 14:15-14:59/44
	22:02 20:33-20:55/22	21:25 20:36-20:55/19 07:37-08:13/36	20:22 07:51-08:06/15	19:14	17:12	16:39
7	05:38 06:08-06:45/37 17:48-19:20/92	06:18 06:48-07:05/17 17:36-19:26/110	07:06 17:44-18:56/72	07:54	07:47	08:34 14:16-15:00/44
	22:02 20:33-20:56/23	21:24 20:38-20:53/15 07:06-08:14/68	20:20 07:49-08:08/19	19:12	17:11	16:39
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	21:35 20:31-21:01/30 07:47-08:04/17	20:35 07:33-08:08/35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	4939	5626	1352	0	388	1485

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT22 - KLZ_WT22 Magelaanstraat

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:35-15:47/12 10:34-11:26/52	08:24 16:32-16:56/24	07:32	07:23 08:08-10:54/166	06:20	05:36 06:34-06:59/25
	16:48 13:03-13:52/49 09:54-10:30/36	17:35 10:39-11:41/62	18:25	20:17	21:06	21:51 20:24-20:53/29
2	08:50 15:36-15:47/11 10:34-11:27/53	08:23 16:31-16:56/25	07:30	07:21 08:07-10:53/166	06:18	05:36 06:35-06:59/24
	16:49 13:04-13:52/48 09:54-10:31/37	17:36 10:39-11:41/62	18:27	20:19 19:39-19:46/7	21:08	21:52 20:25-20:54/29
3	08:49 15:38-15:47/9 10:34-11:28/54	08:21 16:31-16:57/26	07:28	07:19 08:07-10:52/165	06:17	05:35 06:36-06:58/22
	16:50 13:05-13:53/48 09:55-10:32/37	17:38 10:39-11:40/61	18:28	20:20 19:36-19:49/13	21:09	21:53 20:24-20:55/31
4	08:49 15:39-15:46/7 10:34-11:28/54	08:19 16:31-16:58/27	07:26 09:14-09:26/12	07:17 08:08-10:52/164	06:15	05:34 06:37-06:59/22
	16:51 13:05-13:52/47 09:54-10:31/37	17:40 10:40-11:40/60	18:30	20:22 19:34-19:51/17	21:11	21:54 20:23-20:55/32
5	08:49 15:41-15:46/5 10:34-11:29/55	08:18 16:31-16:57/26	07:24 09:06-09:32/26	07:14 08:08-10:51/163	06:13	05:34 06:37-06:58/21
	16:53 13:06-13:53/47 09:55-10:32/37	17:42 10:41-11:39/58	18:32	20:24 19:32-19:53/21	21:13	21:55 20:23-20:56/33
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	16:54 10:34-11:29/55	17:44 10:41-11:39/58	18:33	20:25 19:30-19:53/23	21:14	21:56 20:22-20:57/35
7	08:48 13:08-13:53/45 09:56-10:33/37	08:15 16:31-16:57/26	07:19 08:58-09:40/42	07:10 08:09-10:49/160	06:09 06:44-06:49/5	05:32 06:38-06:57/19
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	17:31 10:38-11:41/63		20:14	21:05	21:48 20:27-20:51/24	22:04 20:26-21:04/38
31	08:26 16:31-16:55/24		07:26 08:08-10:55/167		05:37 06:34-06:59/25	
	17:33 10:38-11:41/63		20:15		21:49 20:25-20:52/27	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	3811	1150	2955	3516	743	1541

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT22 - KLZ_WT22 Magelaanstraat

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:46-07:00/14 22:04 20:27-21:04/37	06:09 06:45-07:07/22 21:34	06:57 09:24-10:43/79 19:27-19:53/26 20:33 08:28-09:21/53	07:44 09:24-10:29/65 19:25 18:39-18:57/18	07:37 16:03-16:26/23 17:21 10:14-11:05/51	08:26 12:53-13:34/41 16:42 09:39-11:15/96
2	05:35 06:45-07:00/15 22:04 20:26-21:04/38	06:11 06:46-07:07/21 21:32	06:59 09:23-10:44/81 08:13-08:23/10 20:31 08:27-09:21/54 19:26-19:52/26	07:46 09:26-10:27/61 19:23 18:39-18:56/17	07:38 16:03-16:27/24 17:19 10:13-11:06/53	08:27 12:53-13:36/43 09:40-10:17/37 16:42 10:18-11:15/57
3	05:35 06:45-07:01/16 22:04 20:27-21:04/37	06:12 06:47-07:05/18 21:30	07:00 09:23-10:45/82 08:10-08:26/16 20:29 08:27-09:21/54 19:26-19:52/26	07:48 09:27-10:25/58 19:21 18:39-18:54/15	07:40 16:01-16:26/25 17:17 10:13-11:08/55	08:29 12:52-13:36/44 09:40-10:17/37 16:41 10:18-11:15/57
4	05:36 06:45-07:02/17 22:03 20:28-21:04/36	06:14 06:49-07:04/15 21:29	07:02 08:08-10:45/157 20:27 19:25-19:51/26	07:49 09:29-10:23/54 19:19 18:40-18:52/12	07:42 16:01-16:27/26 17:16 10:11-11:08/57	08:30 12:53-13:38/45 09:41-10:18/37 16:40 10:19-11:16/57
5	05:37 06:45-07:03/18 22:03 20:28-21:03/35	06:15 06:51-07:02/11 21:27	07:03 08:06-10:46/160 20:24 19:26-19:50/24	07:51 09:32-10:21/49 19:16 18:42-18:50/8	07:44 16:01-16:27/26 17:14 10:11-11:08/57	08:31 12:53-13:38/45 09:41-10:18/37 16:40 10:20-11:15/55
6	05:38 06:44-07:03/19 22:02 20:28-21:03/35	06:17 21:25	07:05 08:04-10:45/161 20:22 19:26-19:49/23	07:53 09:33-10:17/44 19:14	07:45 16:01-16:27/26 17:12 10:10-11:09/59	08:33 12:52-13:39/47 09:41-10:18/37 16:40 10:20-11:15/55
7	05:38 06:43-07:04/21 22:02 20:29-21:03/34	06:18 21:24	07:07 08:03-10:46/163 20:20 19:27-19:48/21	07:54 09:36-10:14/38 19:12	07:47 16:01-16:27/26 17:11 10:10-11:10/60	08:34 15:28-15:32/4 10:21-11:16/55 16:39 12:53-13:40/47 09:42-10:19/37
8	05:39 06:43-07:05/22 22:01 20:30-21:03/33	06:20 21:22	07:08 08:02-10:46/164 20:18 19:28-19:45/17	07:56 09:40-10:11/31 19:10	07:49 16:01-16:27/26 17:09 10:10-11:11/61	08:35 15:27-15:34/7 10:22-11:16/54 16:39 12:53-13:40/47 09:43-10:19/36
9	05:40 06:43-07:06/23 22:00 20:31-21:02/31	06:21 21:20	07:10 08:01-10:47/166 20:15 19:30-19:44/14	07:57 09:44-10:05/21 19:08	07:50 16:02-16:27/25 17:07 10:10-11:11/61	08:36 15:26-15:35/9 10:23-11:16/53 16:39 12:53-13:41/48 09:43-10:20/37
10	05:41 06:43-07:06/23 22:00 20:32-21:02/30	06:23 21:18	07:11 08:00-10:46/166 20:13 19:32-19:40/8	07:59 19:05	07:52 16:03-16:27/24 17:06 10:10-11:12/62	08:37 15:26-15:36/10 10:23-11:16/53 16:38 12:53-13:41/48 09:43-10:20/37
11	05:42 06:43-07:07/24 21:59 20:33-21:01/28	06:24 21:16	07:13 08:00-10:47/167 20:11	08:01 19:03	07:54 16:03-16:27/24 17:04 10:10-11:13/63	08:38 15:25-15:37/12 10:24-11:16/52 16:38 12:53-13:42/49 09:44-10:20/36
12	05:43 06:43-07:07/24 21:58 20:33-21:01/28	06:26 21:14	07:14 07:59-10:46/167 20:09	08:02 19:01	07:56 16:03-16:25/22 09:48-09:57/9 17:03 10:09-11:12/63	08:39 15:25-15:38/13 10:24-11:16/52 16:38 12:53-13:42/49 09:44-10:20/36
13	05:44 06:42-07:08/26 21:57 20:34-21:00/26	06:27 10:00-10:03/3 21:13	07:16 07:59-10:46/167 20:06	08:04 18:59	07:57 16:04-16:25/21 09:45-10:00/15 17:01 10:09-11:13/64	08:40 15:25-15:39/14 10:25-11:16/51 16:38 12:54-13:43/49 09:45-10:21/36
14	05:45 06:42-07:08/26 21:56 20:36-20:59/23	06:29 09:53-10:12/19 21:11	07:18 07:59-10:45/166 20:04	08:06 18:57	07:59 16:05-16:24/19 09:43-10:03/20 17:00 10:09-11:13/64	08:41 15:25-15:40/15 10:26-11:17/51 16:38 12:54-13:44/50 09:45-10:21/36
15	05:47 06:42-07:09/27 21:56 20:37-20:58/21	06:30 09:48-10:16/28 21:09	07:19 09:18-10:46/88 20:02 07:59-09:17/78	08:07 18:55	08:01 16:07-16:23/16 09:42-10:05/23 16:59 10:09-11:13/64	08:42 15:26-15:40/14 10:27-11:17/50 16:38 12:55-13:44/49 09:46-10:22/36
16	05:48 06:42-07:09/27 21:55 20:39-20:56/17	06:32 09:46-10:19/33 21:07	07:21 09:17-10:45/88 20:00 08:00-09:15/75	08:09 18:53	08:02 16:09-16:22/13 09:41-10:06/25 16:57 10:10-11:14/64	08:43 15:26-15:41/15 10:27-11:17/50 16:38 12:55-13:45/50 09:47-10:22/35
17	05:49 06:41-07:09/28 21:54 20:40-20:54/14	06:34 09:43-10:22/39 21:05	07:22 09:17-10:45/88 19:57 08:00-09:14/74	08:11 18:50	08:04 16:11-16:20/9 09:40-10:08/28 16:56 10:10-11:14/64	08:44 15:27-15:42/15 10:28-11:18/50 16:39 12:56-13:46/50 09:47-10:23/36
18	05:50 06:41-07:10/29 21:52 20:44-20:51/7	06:35 09:41-10:24/43 21:03	07:24 09:18-10:44/86 19:20-19:25/5 19:55 08:01-09:14/73	08:12 18:48	08:06 10:11-11:14/63 16:55 09:40-10:09/29	08:45 15:26-15:42/16 10:28-11:18/50 16:39 12:55-13:46/51 09:47-10:22/35
19	05:51 06:42-07:11/29 21:51	06:37 09:39-10:26/47 21:01	07:25 09:17-10:43/86 08:02-08:24/22 19:53 08:26-09:12/46 19:18-19:26/8	08:14 18:46	08:07 10:10-11:14/64 16:53 09:38-10:09/31	08:45 15:27-15:43/16 10:29-11:18/49 16:39 12:56-13:46/50 09:48-10:23/35
20	05:53 06:42-07:11/29 21:50	06:38 09:38-10:28/50 20:59 08:50-09:03/13	07:27 09:18-10:43/85 08:03-08:22/19 19:50 08:28-09:10/42 19:16-19:23/7	08:16 18:44	08:09 09:38-11:14/96 16:52	08:46 15:28-15:44/16 10:30-11:19/49 16:39 12:57-13:47/50 09:49-10:24/35
21	05:54 06:42-07:11/29 21:49	06:40 09:36-10:30/54 20:57 08:45-09:06/21	07:29 09:18-10:42/84 08:05-08:19/14 19:48 08:28-09:08/40 19:16-19:21/5	08:18 18:42	08:11 13:04-13:19/15 16:51 09:38-11:15/97	08:47 15:28-15:44/16 10:30-11:19/49 16:40 12:57-13:47/50 09:49-10:24/35
22	05:55 06:41-07:11/30 21:48	06:41 09:35-10:32/57 20:55 08:43-09:09/26	07:30 09:18-10:41/83 08:10-08:14/4 19:46 08:30-09:06/36 19:16-19:20/4	08:19 18:40	08:12 13:01-13:22/21 16:50 09:38-11:15/97	08:47 15:29-15:45/16 10:31-11:20/49 16:40 12:58-13:48/50 09:50-10:25/35
23	05:56 06:41-07:10/29 21:47	06:43 09:33-10:33/60 20:53 08:40-09:11/31	07:32 09:18-10:40/82 19:16-19:17/1 19:44 08:31-09:03/32	08:21 18:38	08:14 12:59-13:24/25 16:49 09:37-11:14/97	08:48 15:29-15:45/16 10:31-11:20/49 16:41 12:58-13:48/50 09:50-10:25/35
24	05:58 06:42-07:11/29 21:45	06:45 09:32-10:35/63 19:38-19:47/9 20:50 08:39-09:13/34	07:33 09:19-10:39/80 18:50-18:52/2 19:41 08:34-09:01/27	08:23 11:32-11:45/13 18:36	08:16 12:58-13:26/28 16:48 09:38-11:15/97	08:48 15:29-15:45/16 10:31-11:20/49 16:41 12:58-13:48/50 09:50-10:25/35
25	05:59 06:42-07:11/29 21:44	06:46 09:30-10:36/66 19:35-19:49/14 20:48 08:36-09:14/38	07:35 09:20-10:38/78 18:45-18:55/10 19:39 08:37-08:58/21	07:24 10:27-10:50/23 17:34	08:17 12:57-13:28/31 16:47 09:38-11:15/97	08:48 15:30-15:46/16 10:32-11:22/50 16:42 12:59-13:49/50 09:51-10:26/35
26	06:01 06:42-07:10/28 21:43	06:48 09:30-10:38/68 19:33-19:51/18 20:46 08:35-09:16/41	07:36 09:20-10:37/77 18:43-18:57/14 19:37 08:42-08:51/9	07:26 10:24-10:54/30 17:32	08:19 12:55-13:29/34 16:46 09:38-11:14/96	08:49 15:31-15:46/15 10:32-11:22/50 16:43 13:00-13:50/50 09:51-10:27/36
27	06:02 06:43-07:11/28 21:41	06:49 09:28-10:38/70 19:31-19:51/20 20:44 08:33-09:17/44	07:38 09:21-10:36/75 19:34 18:42-18:58/16	07:28 10:21-10:56/35 17:30	08:20 12:55-13:30/35 16:45 09:38-11:15/97	08:49 15:31-15:46/15 10:32-11:22/50 16:43 13:00-13:50/50 09:52-10:27/35
28	06:03 06:43-07:10/27 21:40	06:51 09:28-10:40/72 19:30-19:52/22 20:42 08:33-09:18/45	07:40 09:21-10:34/73 19:32 18:40-18:58/18	07:30 16:10-16:19/9 17:28 10:19-10:58/39	08:22 12:54-13:32/38 16:44 09:39-11:15/96	08:49 15:32-15:46/14 10:32-11:23/51 16:44 13:00-13:50/50 09:52-10:27/35
29	06:05 06:43-07:09/26 21:38	06:52 09:26-10:40/74 19:28-19:52/24 20:40 08:31-09:18/47	07:41 09:22-10:33/71 19:30 18:40-18:58/18	07:31 16:07-16:22/15 17:27 10:17-11:00/43	08:23 12:53-13:33/40 16:44 09:38-11:15/97	08:49 15:32-15:47/15 10:33-11:23/50 16:45 13:01-13:50/49 09:52-10:28/36
30	06:06 06:44-07:10/26 21:37	06:54 09:26-10:42/76 19:28-19:53/25 20:38 08:30-09:20/50	07:43 09:24-10:31/67 19:28 18:39-18:57/18	07:33 16:05-16:23/18 17:25 10:16-11:02/46	08:25 12:54-13:34/40 16:43 09:39-11:15/96	08:50 15:33-15:47/14 10:33-11:24/51 16:46 13:02-13:51/49 09:53-10:28/35
31	06:08 06:44-07:09/25 21:35	06:56 09:24-10:42/78 19:27-19:53/26 20:35 08:29-09:20/51		07:35 16:04-16:25/21 17:23 10:15-11:04/49		08:50 15:34-15:47/13 10:33-11:25/52 16:47 13:02-13:51/49 09:53-10:29/36
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	1273	1686	4473	832	3074	4563

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:49-11:38/49 09:34-09:59/25	08:24 10:50-11:58/68	07:32	07:23	06:20 06:44-07:27/43	05:36 06:20-06:34/14 20:49-21:01/12
	16:48 12:35-13:14/39	17:35	18:25	20:17	21:06	21:50 06:04-06:15/11
2	08:49 10:49-11:39/50 09:35-10:00/25	08:22 10:49-11:58/69	07:30	07:21	06:18 06:42-07:27/45	05:36 06:22-06:35/13 20:50-21:00/10
	16:49 12:36-13:15/39	17:36	18:26	20:19	21:08	21:52 06:06-06:16/10
3	08:49 10:50-11:40/50 09:35-10:01/26	08:21 10:49-11:58/69	07:28	07:19	06:16 06:41-07:27/46	05:35 06:22-06:34/12 20:51-21:00/9
	16:50 12:37-13:15/38	17:38	18:28	20:20	21:09	21:53 06:06-06:15/9
4	08:49 10:49-11:41/52 09:35-10:01/26	08:19 10:50-11:58/68	07:26	07:16	06:15 06:39-07:26/47	05:34 06:23-06:33/10 20:52-20:59/7
	16:51 12:37-13:14/37	17:40	18:30	20:22	21:11	21:54 06:07-06:15/8
5	08:49 10:49-11:42/53 09:36-10:02/26	08:18 10:50-11:58/68	07:24	07:14 07:37-07:44/7	06:13 06:37-07:25/48	05:33 06:24-06:32/8 20:54-20:58/4
	16:52 12:38-13:15/37	17:42	18:32	20:24	21:13	21:55 06:07-06:14/7
6	08:49 10:49-11:42/53 09:35-10:02/27	08:16 10:50-11:57/67	07:21	07:12 07:34-07:45/11	06:11 06:38-07:25/47	05:33 06:25-06:31/6
	16:54 12:39-13:14/35	17:44	18:33	20:25	21:14	21:56 06:09-06:14/5
7	08:48 10:49-11:43/54 09:36-10:03/27	08:14 10:51-11:57/66	07:19	07:10 07:32-07:46/14	06:09 06:38-06:49/11	05:32 06:28-06:29/1
	16:55 12:40-13:14/34	17:45	18:35	20:27	21:16 06:50-07:23/33	21:56 06:09-06:13/4
8	08:48 10:49-11:44/55 09:36-10:04/28	08:13 10:52-11:57/65	07:17	07:08 07:30-07:46/16	06:08 06:32-06:35/3 06:50-07:21/31	05:32
	16:56 12:41-13:14/33	17:47	18:37	20:29	21:17 06:39-06:47/8	21:57
9	08:47 10:49-11:45/56 09:37-10:05/28	08:11 10:52-11:56/64	07:15	07:05 07:29-07:47/18	06:06 06:31-06:37/6 07:07-07:20/13	05:31
	16:57 12:43-13:14/31	17:49	18:38	20:30	21:19 06:42-06:46/4 06:52-07:05/13	21:58
10	08:47 10:49-11:46/57 09:36-10:05/29	08:09 10:53-11:56/63	07:13	07:03 07:29-07:47/18	06:04 06:29-06:38/9 06:53-07:02/9	05:31
	16:59 12:44-13:13/29	17:51	18:40	20:32	21:21 07:09-07:17/8	21:59
11	08:46 10:49-11:46/57 09:36-10:05/29	08:08 10:53-11:55/62	07:10	07:01 07:29-07:46/17	06:03 06:28-06:39/11	05:31
	17:00 12:45-13:12/27	17:53	18:42	20:33	21:22 06:56-07:00/4	22:00
12	08:46 10:49-11:48/59 09:37-10:07/30	08:06 10:54-11:54/60	07:08	06:59 07:28-07:45/17	06:01 06:26-06:39/13	05:30
	17:02 12:47-13:12/25	17:54	18:44	20:35	21:24	22:00
13	08:45 10:49-11:49/60 09:37-10:07/30	08:04 10:54-11:53/59	07:06	06:57 07:29-07:44/15	05:59 06:25-06:40/15	05:30
	17:03 12:49-13:11/22	17:56	18:45	20:37	21:25 20:50-20:56/6	22:01
14	08:44 10:49-11:49/60 09:37-10:07/30	08:02 10:55-11:51/56	07:04	06:55 07:30-07:42/12	05:58 06:23-06:40/17	05:30
	17:05 12:51-13:09/18	17:58	18:47	20:38	21:27 20:48-20:57/9	22:01
15	08:44 10:49-11:50/61 09:38-10:08/30	08:00 10:56-11:50/54	07:02	06:52 07:31-07:40/9	05:56 06:22-06:40/18	05:30
	17:06 12:54-13:07/13	18:00	18:49	20:40	21:28 20:47-20:59/12	22:02
16	08:43 10:49-11:51/62	07:58 10:57-11:49/52	06:59	06:50	05:55 06:21-06:40/19	05:29
	17:08 09:38-10:08/30	18:02	18:50	20:42	21:30 20:46-20:59/13	22:03
17	08:42 10:49-11:51/62	07:56 10:59-11:47/48	06:57	06:48	05:53 06:19-06:39/20	05:29
	17:09 09:38-10:09/31	18:03	18:52	20:43	21:31 20:45-21:01/16	22:03
18	08:41 10:49-11:52/63	07:55 11:00-11:45/45	06:55	06:46	05:52 06:18-06:39/21	05:29
	17:11 09:39-10:09/30	18:05	18:54	20:45	21:33 20:45-21:02/17	22:03
19	08:40 10:49-11:53/64	07:53 11:02-11:42/40	06:53	06:44	05:51 06:18-06:39/21	05:29
	17:12 09:39-10:09/30	18:07	18:55	20:47	21:34 20:45-21:03/18	22:04
20	08:39 10:49-11:54/65	07:51 11:04-11:40/36	06:50	06:42 07:12-07:21/9	05:49 06:18-06:39/21	05:30
	17:14 09:40-10:09/29	18:09	18:57	20:48	21:35 20:44-21:03/19	22:04
21	08:38 10:48-11:54/66	07:49 11:07-11:36/29	06:48	06:40 07:09-07:24/15	05:48 06:18-06:38/20	05:30
	17:16 09:40-10:09/29	18:11	18:59	20:50	21:37 20:44-21:03/19	22:04
22	08:37 10:48-11:54/66	07:47 11:11-11:31/20	06:46	06:38 07:07-07:25/18	05:47 06:17-06:37/20	05:30
	17:17 09:41-10:09/28	18:12	19:00	20:52	21:38 20:44-21:03/19	22:05
23	08:36 10:48-11:55/67	07:45	06:43	06:36 07:05-07:26/21	05:46 06:17-06:36/19 20:45-21:04/19	05:30
	17:19 09:42-10:09/27	18:14	19:02	20:53	21:39 06:12-06:14/2	22:05
24	08:35 10:48-11:55/67	07:43	06:41	06:34 07:04-07:27/23	05:44 06:17-06:36/19 20:45-21:04/19	05:30
	17:21 09:43-10:09/26	18:16	19:04	20:55	21:41 06:11-06:15/4	22:05
25	08:34 10:48-11:56/68	07:40	06:39	06:32 06:55-07:27/32	05:43 06:17-06:36/19 20:45-21:03/18	05:31
	17:22 09:43-10:08/25	18:18	19:05	20:56	21:42 06:10-06:15/5	22:05
26	08:32 10:49-11:57/68	07:38	06:37	06:30 06:53-07:28/35	05:42 06:17-06:36/19 20:45-21:03/18	05:31
	17:24 09:44-10:08/24	18:19	19:07	20:58	21:43 06:09-06:15/6	22:05
27	08:31 10:48-11:57/69	07:36	06:34	06:28 06:51-07:28/37	05:41 06:18-06:36/18 20:46-21:03/17	05:32
	17:26 09:45-10:06/21	18:21	19:09	21:00	21:45 06:08-06:16/8	22:05
28	08:30 10:49-11:57/68	07:34	06:32	06:26 06:51-07:28/37	05:40 06:18-06:36/18 20:46-21:03/17	05:32
	17:28 09:47-10:06/19	18:23	19:10	21:01	21:46 06:08-06:16/8	22:05
29	08:28 10:48-11:57/69		07:30	06:24 06:48-06:49/1	05:39 06:19-06:36/17 20:47-21:02/15	05:33
	17:29 09:48-10:04/16		20:12	21:03 06:50-07:28/38	21:47 06:07-06:16/9	22:05
30	08:27 10:49-11:58/69		07:28	06:22 06:46-07:28/42	05:38 06:20-06:36/16 20:48-21:03/15	05:33
	17:31 09:51-10:02/11		20:14	21:05	21:48 06:06-06:16/10	22:04
31	08:25 10:49-11:58/69		07:25		05:37 06:20-06:35/15 20:48-21:02/14	
	17:33		20:15		21:49 06:05-06:16/11	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	3137	1228	0	462	1167	160

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 06:37-06:49/12 21:34	06:57 07:28-07:45/17 20:33	07:44 19:25	07:36 10:22-11:25/63 17:21	08:26 10:31-11:29/58 09:18-09:48/30 16:42 12:27-12:54/27
2	05:34 22:04	06:10 06:39-06:49/10 07:05-07:12/7 21:32 07:23-07:25/2	06:59 07:27-07:45/18 20:31	07:46 19:23	07:38 10:22-11:26/64 17:19	08:27 10:32-11:29/57 09:19-09:48/29 16:41 12:27-12:56/29
3	05:35 22:03	06:12 06:40-06:48/8 07:02-07:14/12 21:30 07:18-07:29/11	07:00 07:27-07:45/18 20:29	07:48 19:21	07:40 10:21-11:26/65 17:17	08:29 10:32-11:28/56 09:20-09:48/28 16:41 12:26-12:57/31
4	05:36 22:03	06:13 06:41-06:46/5 07:16-07:30/14 21:29 06:51-06:57/6 07:01-07:15/14	07:02 07:27-07:43/16 20:27	07:49 19:19	07:42 10:20-11:27/67 17:16	08:30 10:34-11:29/55 09:21-09:49/28 16:40 12:26-12:59/33
5	05:37 06:17-06:18/1 22:03	06:15 06:43-06:45/2 07:00-07:32/32 21:27 06:49-06:58/9	07:03 07:29-07:43/14 20:24	07:51 19:16	07:43 10:20-11:27/67 17:14	08:31 10:34-11:29/55 09:21-09:49/28 16:40 12:25-12:59/34
6	05:37 06:32-06:37/5 22:02 06:14-06:19/5	06:16 06:48-07:33/45 21:25	07:05 07:30-07:41/11 20:22	07:52 19:14	07:45 10:20-11:28/68 17:12	08:33 10:35-11:28/53 09:21-09:48/27 16:39 12:25-13:00/35
7	05:38 06:31-06:38/7 22:02 06:14-06:20/6	06:18 06:47-07:34/47 21:23	07:06 07:32-07:40/8 20:20	07:54 19:12	07:47 10:20-11:28/68 17:11	08:34 10:36-11:29/53 09:23-09:49/26 16:39 12:25-13:02/37
8	05:39 06:30-06:40/10 21:00-21:06/6 22:01 06:14-06:21/7	06:20 06:47-07:35/48 21:22	07:08 07:33-07:35/2 20:18	07:56 19:10	07:49 10:20-11:28/68 17:09	08:35 10:37-11:29/52 09:23-09:49/26 16:39 12:25-13:02/37
9	05:40 06:30-06:41/11 20:59-21:07/8 22:00 06:13-06:22/9	06:21 06:49-07:36/47 21:20	07:10 20:15	07:57 19:08	07:50 10:20-11:29/69 17:07	08:36 10:38-11:29/51 09:23-09:49/26 16:38 12:25-13:03/38
10	05:41 06:29-06:42/13 20:58-21:08/10 22:00 06:13-06:23/10	06:23 06:50-07:36/46 21:18	07:11 20:13	07:59 19:05	07:52 10:20-11:29/69 17:06	08:37 10:38-11:28/50 09:24-09:49/25 16:38 12:25-13:04/39
11	05:42 06:29-06:42/13 20:58-21:09/11 21:59 06:13-06:24/11	06:24 06:52-07:35/43 21:16	07:13 20:11	08:01 19:03	07:54 10:21-11:29/68 17:04 09:27-09:29/2	08:38 10:39-11:28/49 09:24-09:50/26 16:38 12:25-13:04/39
12	05:43 06:29-06:43/14 20:57-21:10/13 21:58 06:13-06:24/11	06:26 06:53-07:36/43 21:14	07:14 20:09	08:02 19:01	07:56 10:20-11:29/69 17:03 09:22-09:33/11	08:39 10:40-11:28/48 09:25-09:50/25 16:38 12:25-13:05/40
13	05:44 06:28-06:44/16 20:57-21:11/14 21:57 06:14-06:24/10	06:27 06:54-07:36/42 21:12	07:16 20:06	08:04 18:59	07:57 10:20-11:29/69 17:01 09:20-09:36/16	08:40 10:40-11:29/49 09:25-09:50/25 16:38 12:25-13:06/41
14	05:45 06:28-06:44/16 20:56-21:11/15 21:56 06:15-06:25/10	06:29 06:58-07:36/38 21:11	07:17 20:04	08:06 18:57	07:59 10:21-11:29/68 17:00 09:19-09:38/19	08:41 10:41-11:29/48 09:26-09:51/25 16:38 12:25-13:06/41
15	05:46 06:28-06:45/17 20:56-21:12/16 21:55 06:16-06:25/9	06:30 06:58-07:35/37 21:09	07:19 20:02	08:07 18:55	08:01 10:21-11:29/68 16:59 09:18-09:39/21	08:42 10:42-11:29/47 09:27-09:51/24 16:38 12:26-13:07/41
16	05:48 06:27-06:45/18 20:55-21:12/17 21:54 06:17-06:25/8	06:32 06:59-07:35/36 21:07	07:21 19:59	08:09 18:52	08:02 10:22-11:30/68 16:57 09:17-09:41/24	08:43 10:43-11:30/47 09:27-09:51/24 16:38 12:26-13:08/42
17	05:49 06:27-06:46/19 20:55-21:13/18 21:53 06:18-06:25/7	06:33 07:00-07:34/34 21:05	07:22 19:57	08:11 18:50	08:04 10:22-11:30/68 16:56 09:17-09:42/25	08:44 10:44-11:30/46 09:28-09:52/24 16:38 12:27-13:09/42
18	05:50 06:27-06:46/19 20:55-21:13/18 21:52 06:19-06:25/6	06:35 07:02-07:34/32 21:03	07:24 19:55	08:12 18:48	08:06 10:22-11:29/67 16:55 09:17-09:43/26	08:45 10:44-11:30/46 09:28-09:52/24 16:39 12:26-13:09/43
19	05:51 06:27-06:46/19 20:54-21:13/19 21:51 06:21-06:26/5	06:37 07:10-07:32/22 21:01	07:25 19:53	08:14 11:47-11:57/10 18:46	08:07 10:22-11:29/67 16:53 09:16-09:43/27	08:45 10:45-11:30/45 09:29-09:53/24 16:39 12:27-13:10/43
20	05:52 06:27-06:47/20 20:54-21:13/19 21:50 06:22-06:25/3	06:38 07:11-07:32/21 20:59	07:27 19:50	08:16 11:41-12:04/23 18:44	08:09 10:23-11:29/66 16:52 09:16-09:44/28	08:46 10:46-11:31/45 09:30-09:53/23 16:39 12:28-13:10/42
21	05:54 06:27-06:47/20 20:55-21:14/19 21:49 06:23-06:24/1	06:40 07:12-07:30/18 20:57	07:28 19:48	08:17 11:37-12:08/31 18:42	08:11 10:24-11:30/66 16:51 09:16-09:45/29	08:47 10:46-11:31/45 09:30-09:53/23 16:40 12:28-13:10/42
22	05:55 06:27-06:48/21 21:48 20:55-21:14/19	06:41 07:14-07:28/14 20:55	07:30 19:46	08:19 11:34-12:11/37 18:40	08:12 10:25-11:30/65 16:50 09:16-09:45/29	08:47 10:47-11:32/45 09:31-09:54/23 16:40 12:29-13:11/42
23	05:56 06:27-06:48/21 21:47 20:55-21:14/19	06:43 07:16-07:25/9 20:52	07:32 19:43	08:21 11:32-12:14/42 18:38	08:14 10:25-11:29/64 16:49 09:15-09:45/30	08:48 10:47-11:32/45 09:31-09:54/23 16:41 12:29-13:11/42
24	05:58 06:28-06:50/22 21:45 20:55-21:13/18	06:44 20:50	07:33 19:41	08:23 11:30-12:16/46 18:36	08:16 10:26-11:29/63 16:48 09:16-09:46/30	08:48 10:47-11:32/45 09:32-09:55/23 16:41 12:29-13:11/42
25	05:59 06:28-06:50/22 21:44 20:56-21:14/18	06:46 20:48	07:35 19:39	07:24 10:29-11:18/49 17:34	08:17 10:27-11:30/63 16:47 09:16-09:47/31	08:48 10:48-11:33/45 09:32-09:56/24 16:42 12:30-13:13/43
26	06:00 06:29-06:50/21 21:42 20:56-21:12/16	06:48 20:46	07:36 19:37	07:26 10:28-11:19/51 17:32	08:19 10:27-11:29/62 16:46 09:16-09:46/30	08:49 10:48-11:34/46 09:32-09:56/24 16:43 12:31-13:13/42
27	06:02 06:30-06:50/20 21:41 20:56-21:11/15	06:49 20:44	07:38 19:34	07:28 10:26-11:20/54 17:30	08:20 10:28-11:29/61 09:17-09:47/30 16:45 12:33-12:46/13	08:49 10:48-11:34/46 09:32-09:56/24 16:43 12:31-13:13/42
28	06:03 06:32-06:51/19 21:40 20:57-21:10/13	06:51 07:33-07:42/9 20:42	07:40 19:32	07:30 10:25-11:21/56 17:28	08:22 10:29-11:29/60 09:18-09:48/30 16:44 12:31-12:49/18	08:49 10:48-11:35/47 09:33-09:57/24 16:44 12:32-13:13/41
29	06:05 06:33-06:50/17 21:38 20:58-21:08/10	06:52 07:31-07:43/12 20:40	07:41 19:30	07:31 10:24-11:23/59 17:26	08:23 10:29-11:29/60 09:17-09:47/30 16:43 12:29-12:51/22	08:49 10:48-11:36/48 09:33-09:57/24 16:45 12:32-13:13/41
30	06:06 06:34-06:51/17 21:37 20:59-21:07/8	06:54 07:30-07:45/15 20:38	07:43 19:28	07:33 10:23-11:24/61 17:25	08:25 10:30-11:29/59 09:18-09:48/30 16:43 12:28-12:53/25	08:49 10:48-11:36/48 09:33-09:58/25 16:46 12:33-13:14/41
31	06:08 06:36-06:50/14 21:35 21:01-21:06/5	06:55 07:28-07:45/17 20:35		07:35 10:23-11:25/62 17:23		08:50 10:49-11:37/48 09:34-09:59/25 16:47 12:34-13:14/40
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	894	819	104	581	2545	3509

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:37-09:40/3	08:24 08:50-08:54/4	07:32 07:59-08:04/5	07:23	06:20	05:37
	16:48 10:05-10:22/17	17:35	18:25	20:17	21:06	21:50
2	08:49 10:07-10:22/15	08:22 08:48-08:54/6	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 10:07-10:21/14	08:21 08:46-08:53/7	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:08-10:21/13	08:19 08:46-08:53/7	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:10-10:20/10	08:18 17:12-17:13/1	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 10:11-10:19/8	08:16 17:12-17:15/3	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:20/2	08:14 17:13-17:17/4	07:19	07:10	06:09	05:32
	16:55 10:15-10:17/2	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:17-09:21/4	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:16-09:22/6	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:22/7	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:14-09:23/9	08:04	07:06	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:24/11	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:12-09:24/12	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:12-09:24/12	07:56	06:57	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:13-09:23/10	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:15-09:23/8	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:17-09:22/5	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:08/6	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:08/8	06:35	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:06/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:54/1		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	195	61	5	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40	16:45-16:47/2	08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	16:43-16:46/3	08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	16:42-16:44/2	08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12	16:42-16:43/1	16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02		07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:32-08:38/6	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:39/8	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:40/7	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:41/6	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11	08:36-08:39/3	08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12	08:38-08:39/1	08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	31		124		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December	
1	08:49 09:32-09:40/8	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26	
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42	
2	08:49 09:33-09:40/7	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27	
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42	
3	08:49 09:35-09:39/4	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29	
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41	
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30	
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41	
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31	
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40	
6	08:49	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33	
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40	
7	08:48	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34	
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39	
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35	
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39	
9	08:47	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36	09:23-09:27/4
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39	
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37	09:22-09:29/7
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38	
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38	09:22-09:30/8
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38	
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39	09:22-09:31/9
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38	
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40	09:22-09:32/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38	
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41	09:22-09:32/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38	
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42	09:22-09:33/11
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38	
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43	09:23-09:34/11
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38	
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44	09:23-09:35/12
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39	
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44	09:23-09:35/12
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39	
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45	09:24-09:36/12
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39	
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46	09:24-09:37/13
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40	
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46	09:24-09:37/13
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40	
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47	09:25-09:38/13
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40	
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47	09:25-09:38/13
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41	
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48	09:26-09:38/12
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42	
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48	09:27-09:39/12
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42	
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49	09:27-09:39/12
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43	
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49	09:28-09:39/11
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44	
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49	09:28-09:39/11
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44	
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49	09:29-09:39/10
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45	
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49	09:29-09:40/11
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46	
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49	09:30-09:40/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47	
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248	
Sum of minutes with flicker	19	0	0	0	0	0	0	0	0	0	0	247	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 09:22-09:57/35 17:35	07:32 13:53-15:15/82 18:25 07:55-08:08/13	07:23 07:46-08:01/15 14:16-16:35/139 20:17 19:33-19:51/18	06:20 06:44-06:58/14 21:06 15:01-16:20/79	05:36 06:13-06:40/27 21:50
2	08:49 16:49	08:22 09:22-09:56/34 17:36	07:30 13:51-15:17/86 18:26 07:53-08:09/16	07:21 07:43-07:59/16 14:16-16:35/139 20:19 19:32-19:52/20	06:18 06:42-06:58/16 21:08 15:04-16:19/75	05:36 06:14-06:41/27 21:51
3	08:49 16:50	08:21 09:22-09:56/34 17:38	07:28 13:49-15:19/90 18:28 07:51-08:09/18	07:19 07:44-07:57/13 14:16-16:35/139 20:20 19:31-19:52/21	06:16 06:41-07:00/19 21:09 15:06-16:17/71	05:35 06:14-06:40/26 21:53
4	08:49 16:51	08:19 09:23-09:56/33 17:40	07:26 13:47-15:21/94 18:30 07:49-08:09/20	07:16 07:46-07:50/4 14:16-16:35/139 20:22 19:31-19:53/22	06:15 06:40-07:00/20 21:11 15:10-16:17/67	05:34 06:13-06:40/27 21:54
5	08:49 16:52	08:18 09:23-09:55/32 17:42	07:24 13:44-15:21/97 18:32 07:47-08:07/20	07:14 19:30-19:52/22 20:24 14:16-16:35/139	06:13 06:40-06:59/19 21:13 15:13-16:16/63	05:33 06:14-06:41/27 21:55
6	08:49 16:54	08:16 09:24-09:54/30 17:44	07:21 13:43-15:23/100 18:33 07:44-08:07/23	07:12 19:30-19:51/21 20:25 14:16-16:34/138	06:11 06:40-07:00/20 21:14 15:16-16:14/58	05:33 06:14-06:41/27 21:55
7	08:48 16:55	08:14 09:25-09:53/28 17:45	07:19 13:41-15:24/103 18:35 07:43-08:05/22	07:10 19:30-19:51/21 20:27 14:16-16:34/138	06:09 06:40-07:00/20 21:16 15:20-16:13/53	05:32 06:14-06:41/27 21:56
8	08:48 16:56	08:13 09:26-09:53/27 17:47	07:17 13:40-15:26/106 07:45-07:51/6 18:37 07:54-08:04/10	07:08 19:31-19:50/19 20:28 14:16-16:34/138	06:08 06:39-06:59/20 21:17 15:23-16:11/48	05:32 06:15-06:42/27 21:57
9	08:47 16:58	08:11 09:28-09:51/23 17:49	07:15 13:38-15:26/108 18:38	07:05 19:32-19:49/17 20:30 14:17-16:34/137	06:06 06:40-06:59/19 21:19 15:26-16:10/44	05:31 06:15-06:41/26 21:58
10	08:47 16:59	08:09 09:29-09:49/20 17:51	07:13 13:36-15:27/111 18:40	07:03 19:33-19:48/15 20:32 14:17-16:34/137	06:04 06:40-06:58/18 21:20 15:30-16:08/38	05:31 06:15-06:42/27 21:59
11	08:46 09:31-09:35/4 17:00	08:08 09:31-09:47/16 17:53	07:10 13:35-15:28/113 18:42	07:01 19:34-19:45/11 20:33 14:17-16:32/135	06:03 06:41-06:58/17 21:22 15:34-16:07/33	05:31 06:16-06:42/26 21:59
12	08:46 09:28-09:38/10 17:02	08:06 09:34-09:43/9 17:54	07:08 13:34-15:30/116 18:44 07:31-07:35/4	06:59 14:18-16:32/134 20:35	06:01 06:41-06:56/15 21:24 15:38-16:04/26	05:30 06:15-06:41/26 22:00
13	08:45 09:27-09:41/14 17:03	08:04 17:56	07:06 13:32-15:30/118 18:45 07:29-07:36/7	06:57 14:19-16:32/133 20:37	05:59 06:43-06:56/13 21:25 15:43-16:00/17	05:30 06:15-06:42/27 22:01
14	08:44 09:26-09:43/17 17:05	08:02 17:58	07:04 13:31-15:31/120 18:47 07:26-07:36/10	06:55 14:20-16:31/131 20:38	05:58 06:44-06:53/9 21:27	05:30 06:16-06:42/26 22:01
15	08:44 09:25-09:44/19 17:06	08:00 18:00	07:01 13:30-15:31/121 18:49 07:24-07:36/12	06:52 14:21-16:31/130 20:40	05:56 06:47-06:51/4 21:28	05:30 06:16-06:42/26 22:02
16	08:43 09:24-09:46/22 17:08	07:58 18:02	06:59 13:29-15:32/123 18:50 07:22-07:36/14	06:50 14:23-16:31/128 20:42	05:55 21:30	05:29 06:16-06:43/27 22:02
17	08:42 09:23-09:47/24 17:09	07:56 18:03	06:57 13:27-15:32/125 18:52 07:22-07:35/13	06:48 07:11-07:13/2 20:43 14:24-16:30/126	05:53 21:31	05:29 06:17-06:43/26 22:03
18	08:41 09:23-09:48/25 17:11	07:54 18:05	06:55 13:26-15:33/127 18:54 07:22-07:33/11	06:46 07:09-07:13/4 20:45 14:26-16:30/124	05:52 06:24-06:27/3 21:32	05:29 06:17-06:43/26 22:03
19	08:40 09:22-09:50/28 17:12	07:53 18:07	06:53 13:25-15:34/129 18:55 07:23-07:32/9	06:44 07:07-07:12/5 20:47 14:28-16:29/121	05:51 06:21-06:31/10 21:34	05:29 06:17-06:43/26 22:04
20	08:39 09:22-09:51/29 17:14	07:51 18:09	06:50 13:25-15:34/129 18:57	06:42 07:05-07:10/5 20:48 14:30-16:29/119	05:49 06:19-06:33/14 21:35	05:30 06:17-06:43/26 22:04
21	08:38 09:21-09:51/30 17:16	07:49 14:21-14:48/27 18:11	06:48 13:23-15:34/131 18:59	06:40 14:32-16:28/116 20:50	05:48 06:17-06:33/16 21:37	05:30 06:17-06:43/26 22:04
22	08:37 09:21-09:52/31 17:17	07:47 14:15-14:53/38 18:12	06:46 13:22-15:34/132 19:00	06:38 14:34-16:27/113 20:51	05:47 06:16-06:35/19 21:38	05:30 06:18-06:44/26 22:04
23	08:36 09:21-09:53/32 17:19	07:45 14:11-14:58/47 18:14	06:43 13:22-15:35/133 19:02	06:36 14:37-16:27/110 20:53	05:46 06:16-06:36/20 21:39	05:30 06:18-06:44/26 22:05
24	08:35 09:20-09:53/33 17:21	07:42 14:07-15:02/55 18:16	06:41 13:20-15:34/134 19:04	06:34 14:39-16:26/107 20:55	05:44 06:15-06:36/21 21:41	05:30 06:18-06:44/26 22:05
25	08:33 09:20-09:54/34 17:22	07:40 14:04-15:05/61 18:18	06:39 13:20-15:35/135 19:05	06:32 14:42-16:25/103 20:56	05:43 06:15-06:37/22 21:42	05:31 06:19-06:45/26 22:05
26	08:32 09:21-09:55/34 17:24	07:38 14:01-15:08/67 18:19 08:02-08:04/2	06:37 13:19-15:35/136 19:07	06:30 14:45-16:24/99 20:58	05:42 06:14-06:37/23 21:43	05:31 06:19-06:45/26 22:05
27	08:31 09:20-09:55/35 17:26	07:36 13:57-15:10/73 18:21 08:00-08:07/7	06:34 06:57-07:01/4 19:09 13:19-15:36/137	06:28 14:48-16:23/95 21:00	05:41 06:14-06:38/24 21:45	05:32 06:18-06:44/26 22:05
28	08:30 09:21-09:56/35 17:28	07:34 13:55-15:13/78 18:23 07:57-08:07/10	06:32 06:55-07:02/7 19:10 13:18-15:35/137	06:26 14:51-16:22/91 21:01	05:40 06:13-06:38/25 21:46	05:32 06:19-06:45/26 22:05
29	08:28 09:20-09:55/35 17:29		07:30 07:52-08:01/9 14:18-16:35/137 20:12 19:41-19:46/5	06:24 06:48-06:56/8 21:03 14:55-16:22/87	05:39 06:14-06:39/25 21:47	05:33 06:20-06:46/26 22:05
30	08:27 09:21-09:56/35 17:31		07:28 07:50-08:01/11 14:17-16:35/138 20:14 19:37-19:49/12	06:22 06:46-06:57/11 21:05 14:58-16:21/83	05:38 06:14-06:40/26 21:48	05:33 06:19-06:46/27 22:04
31	08:25 09:21-09:56/35 17:33		07:25 07:48-08:01/13 14:17-16:36/139 20:15 19:35-19:50/15		05:37 06:14-06:40/26 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	561	786	3991	3958	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 19:33-19:44/11 20:33 14:17-16:32/135	07:44 14:12-16:09/117 19:25 08:09-08:15/6	07:36 08:58-09:20/22 17:21	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 19:31-19:46/15 20:31 14:15-16:31/136	07:46 14:13-16:08/115 19:23 08:11-08:13/2	07:38 08:57-09:21/24 17:19	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 19:30-19:47/17 20:29 14:15-16:32/137	07:48 14:14-16:06/112 19:21	07:40 08:55-09:22/27 17:17	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 19:28-19:47/19 20:27 14:13-16:31/138	07:49 14:15-16:05/110 19:19	07:42 08:54-09:23/29 17:16	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 19:27-19:48/21 20:24 14:13-16:31/138	07:51 14:16-16:03/107 08:23-08:27/4 19:16 08:32-08:39/7	07:43 08:54-09:24/30 17:14	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 19:26-19:47/21 20:22 14:12-16:30/138	07:52 14:17-16:01/104 08:20-08:28/8 19:14 08:29-08:41/12	07:45 08:53-09:25/32 17:12	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 19:26-19:48/22 20:20 14:11-16:30/139	07:54 14:18-16:00/102 19:12 08:19-08:42/23	07:47 08:53-09:26/33 17:11	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 14:10-16:29/139 20:18 19:25-19:47/22	07:56 14:20-15:58/98 19:10 08:21-08:43/22	07:49 08:53-09:26/33 17:09	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 14:10-16:29/139 20:15 19:26-19:47/21	07:57 14:20-15:56/96 19:08 08:22-08:43/21	07:50 08:52-09:27/35 17:07	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 14:09-16:28/139 20:13 19:25-19:45/20	07:59 14:22-15:54/92 19:05 08:24-08:43/19	07:52 08:52-09:27/35 17:06	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 14:09-16:28/139 20:11 19:26-19:44/18	08:01 14:24-15:52/88 19:03 08:26-08:43/17	07:54 08:53-09:28/35 17:04	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 14:08-16:27/139 20:09 19:26-19:42/16	08:02 14:25-15:49/84 19:01 08:28-08:42/14	07:56 08:52-09:27/35 17:03	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 14:09-16:27/138 20:06 19:28-19:40/12	08:04 14:27-15:47/80 18:59 08:29-08:41/12	07:57 08:52-09:27/35 17:01	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 14:08-16:26/138 20:04 19:30-19:37/7	08:06 14:29-15:45/76 18:57 08:31-08:40/9	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 18:55 08:33-08:38/5	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 07:09-07:14/5 20:52 14:33-16:32/119	07:32 14:08-16:18/130 19:43	08:21 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 07:11-07:16/5 20:50 14:31-16:33/122	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:12-07:16/4 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:16/2 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 14:24-16:32/128 20:44	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 14:23-16:33/130 20:42	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 17:28	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 19:30 08:06-08:17/11	07:31 17:26	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 19:28 08:08-08:16/8	07:33 09:03-09:14/11 17:25	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 19:38-19:40/2 20:35 14:18-16:32/134		07:35 09:00-09:17/17 17:23		08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3089	4419	1939	859	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: EAM_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:07-06:17/10	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35 06:07-06:17/10	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:09-06:17/8	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:09-06:16/7	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:11-06:15/4	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38 06:18-06:21/3	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39 06:17-06:23/6	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40 06:16-06:24/8	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41 06:16-06:25/9	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30	05:42 06:16-06:26/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43 06:15-06:26/11	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59 06:25-06:27/2	05:30	05:44 06:15-06:27/12	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45 06:15-06:27/12	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46 06:16-06:27/11	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47 06:17-06:28/11	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48 06:18-06:28/10	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:28/9	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29	05:51 06:20-06:28/8	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:17/1	05:29	05:52 06:21-06:27/6	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:16/2	05:29	05:53 06:23-06:28/5	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:47 06:13-06:17/4	05:30	05:55 06:24-06:27/3	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:12-06:18/6	05:30	05:56 06:25-06:27/2	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34	05:44 06:11-06:18/7	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43 06:10-06:18/8	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:09-06:18/9	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:08-06:18/10	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:18/11	05:32	06:03 06:32-06:35/3	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:18/12	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:18/12	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37 06:07-06:18/11		06:07 06:36-06:37/1	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	103	39	145	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: EAM_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:23/1	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:23/4	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52 06:18-06:24/6	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50 06:17-06:24/7	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:24/8	05:29	05:52 06:27-06:29/2	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:22/8	05:29	05:53 06:25-06:31/6	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:46 06:14-06:21/7	05:30	05:55 06:24-06:32/8	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45 06:16-06:20/4	05:30	05:56 06:25-06:33/8	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57 06:26-06:33/7	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59 06:28-06:34/6	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00 06:29-06:34/5	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:34/2	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:34/1	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	49	0	49	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: EAM_WT03 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:28/2	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:28/3	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:27/5	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:26/5	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:31-06:35/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:37/5	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:37/4	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06 06:34-06:38/4	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:38/2	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	19	0	19	1	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: EAM_WT05 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:40
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:39
6	08:49	08:16	07:21	07:12	06:11	05:32	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	247
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:50	08:24		07:32	17:54-17:59/5	07:23		06:20		05:36	21:06-21:13/7
	16:48	17:35		18:25	17:22-17:42/20	20:17		21:06		21:51	
2	08:50	08:23		07:30	17:51-18:01/10	07:21		06:18		05:36	21:08-21:13/5
	16:49	17:36		18:27	17:23-17:41/18	20:19		21:08		21:52	
3	08:50	08:21		07:28	17:50-18:03/13	07:19		06:16		05:35	
	16:50	17:38		18:28	17:25-17:39/14	20:20		21:10		21:53	
4	08:49	08:20		07:26	17:48-18:05/17	07:17	19:54-19:57/3	06:15		05:34	
	16:51	17:40		18:30	17:28-17:36/8	20:22		21:11		21:54	
5	08:49	08:18		07:24	17:47-18:06/19	07:14	19:53-19:58/5	06:13		05:34	
	16:53	17:42		18:32		20:24		21:13		21:55	
6	08:49	08:16		07:22	17:46-18:08/22	07:12	19:52-19:59/7	06:11		05:33	
	16:54	17:44		18:33		20:25		21:14		21:56	
7	08:48	08:15		07:19	17:46-18:10/24	07:10	19:51-20:01/10	06:09		05:32	
	16:55	17:45		18:35		20:27		21:16		21:57	
8	08:48	08:13		07:17	17:45-18:10/25	07:08	19:52-20:03/11	06:08		05:32	
	16:56	17:47		18:37		20:29		21:18		21:57	
9	08:48	08:11		07:15	17:46-18:10/24	07:06	19:52-20:05/13	06:06		05:31	
	16:58	17:49		18:39		20:30		21:19		21:58	
10	08:47	08:09		07:13	17:45-18:09/24	07:03	19:53-20:06/13	06:04		05:31	
	16:59	17:51		18:40		20:32		21:21		21:59	
11	08:47	08:08		07:11	17:45-18:08/23	07:01	19:53-20:03/10	06:03		05:31	
	17:00	17:53		18:42		20:34		21:22		22:00	
12	08:46	08:06		07:08	17:46-18:07/21	06:59	19:55-20:01/6	06:01		05:30	
	17:02	17:55		18:44		20:35		21:24		22:00	
13	08:45	08:04		07:06	17:47-18:06/19	06:57		05:59		05:30	
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:45	08:02		07:04	17:48-18:04/16	06:55		05:58		05:30	
	17:05	17:58		18:47		20:39		21:27		22:02	
15	08:44	08:00		07:02	17:50-18:02/12	06:53		05:56		05:30	
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	17:27-17:34/7	06:59		06:50		05:55		05:30	
	17:08	18:02		18:50		20:42		21:30		22:03	
17	08:42	07:57	17:25-17:36/11	06:57		06:48		05:54		05:29	
	17:09	18:04		18:52		20:43		21:31		22:03	
18	08:41	07:55	17:23-17:38/15	06:55		06:46		05:52	21:02-21:03/1	05:29	
	17:11	18:05		18:54		20:45		21:33		22:04	
19	08:40	07:53	17:22-17:40/18	06:53	18:29-18:31/2	06:44		05:51	21:02-21:04/2	05:30	
	17:12	18:07		18:56		20:47		21:34		22:04	
20	08:39	07:51	17:21-17:42/21	06:50	18:29-18:32/3	06:42		05:49	21:02-21:06/4	05:30	
	17:14	18:09		18:57		20:48		21:36		22:04	
21	08:38	07:49	17:21-17:44/23	06:48	18:27-18:33/6	06:40		05:48	21:01-21:06/5	05:30	
	17:16	18:11		18:59		20:50		21:37		22:04	
22	08:37	07:47	17:20-17:46/26	06:46	18:27-18:35/8	06:38		05:47	21:01-21:07/6	05:30	
	17:17	18:12		19:01		20:52		21:38		22:05	
23	08:36	07:45	17:20-17:48/28	06:44	18:28-18:37/9	06:36		05:46	21:01-21:09/8	05:30	
	17:19	18:14		19:02		20:53		21:40		22:05	
24	08:35	07:43	17:20-17:50/30	06:41	18:28-18:38/10	06:34		05:44	21:01-21:10/9	05:30	
	17:21	18:16		19:04		20:55		21:41		22:05	
25	08:34	07:41	17:20-17:52/32	06:39	18:30-18:36/6	06:32		05:43	21:01-21:11/10	05:31	
	17:22	18:18		19:06		20:57		21:42		22:05	
26	08:32	07:39	17:20-17:51/31	06:37		06:30		05:42	21:02-21:12/10	05:31	
	17:24	18:20		19:07		20:58		21:44		22:05	
27	08:31	07:36	17:21-17:45/24	06:35		06:28		05:41	21:02-21:13/11	05:32	
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34	17:21-17:43/22	06:32		06:26		05:40	21:02-21:14/12	05:32	
	17:28	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	21:04-21:16/12	05:33	
	17:29			20:12		21:03		21:47		22:05	
30	08:27			07:28		06:22		05:38	21:04-21:15/11	05:33	
	17:31			20:14		21:05		21:48		22:05	
31	08:26			07:26				05:37	21:05-21:14/9		
	17:33			20:15				21:50			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	288		378		78		110		12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:53-20:03/10	07:45 18:25-18:46/21	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11	06:59 19:51-20:03/12	07:46 18:25-18:47/22	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:50-20:03/13	07:48 18:23-18:46/23	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02 19:49-20:00/11	07:49 18:23-18:47/24	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03 19:49-19:58/9	07:51 18:22-18:47/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05 19:48-19:55/7	07:53 18:21-18:46/25	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:07 19:48-19:54/6	07:54 18:22-18:45/23	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08 19:49-19:51/2	07:56 18:22-18:43/21	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:58 18:22-18:40/18	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:16-21:20/4	06:23	07:11	07:59 18:23-18:38/15	07:52	08:37
	22:00	21:18	20:13	19:05 18:01-18:12/11	17:06	16:38
11	05:42 21:15-21:21/6	06:24	07:13	08:01 18:24-18:36/12	07:54	08:39
	21:59	21:16	20:11	19:03 17:58-18:14/16	17:04	16:38
12	05:43 21:14-21:22/8	06:26	07:14	08:02 18:26-18:34/8	07:56	08:40
	21:58	21:15	20:09	19:01 17:57-18:16/19	17:03	16:38
13	05:44 21:13-21:23/10	06:27	07:16	08:04 18:29-18:31/2	07:57	08:41
	21:57	21:13	20:06	18:59 17:54-18:16/22	17:01	16:38
14	05:45 21:13-21:24/11	06:29	07:18	08:06 17:53-18:17/24	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07 17:53-18:22/29	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09 17:52-18:23/31	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11 17:51-18:22/31	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13 17:51-18:20/29	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14 17:51-18:18/27	08:08	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16 17:52-18:16/24	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18 17:51-18:14/23	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19 17:52-18:12/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21 17:53-18:10/17	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 21:11-21:14/3	06:45	07:33 19:13-19:15/2	08:23 17:54-18:08/14	08:16	08:48
	21:45	20:51	19:41	18:36	16:48	16:41
25	05:59 21:12-21:14/2	06:46	07:35	07:24 16:56-17:06/10	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 16:59-17:04/5	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:32-18:41/9	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:30-18:44/14	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:27-18:45/18	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	125	6	157	591	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 17:00-17:05/5	07:32 17:57-17:59/2	07:23	06:20 20:37-20:38/1	05:36
	16:48	17:35 16:38-16:50/12	18:25	20:17	21:06	21:51
2	08:50	08:23 16:59-17:07/8	07:30 17:57-18:01/4	07:21	06:18 20:38-20:40/2	05:36
	16:49	17:36 16:40-16:48/8	18:27	20:19	21:08	21:52
3	08:50	08:21 16:58-17:09/11	07:28 17:57-18:03/6	07:19	06:16 20:39-20:41/2	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49	08:20 16:58-17:11/13	07:26 17:58-18:05/7	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49	08:18 16:58-17:13/15	07:24 17:58-18:06/8	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49	08:16 16:57-17:15/18	07:22 18:00-18:05/5	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48	08:15 16:57-17:16/19	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:57
8	08:48	08:13 16:58-17:19/21	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:18	21:57
9	08:48	08:11 16:59-17:20/21	07:15	07:06	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09 16:59-17:17/18	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47	08:08 17:00-17:16/16	07:11	07:01	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46	08:06 17:01-17:15/14	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45	08:04 17:03-17:13/10	07:06 18:17-18:20/3	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45	08:02 17:07-17:09/2	07:04 18:16-18:22/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:39	21:27	22:02
15	08:44	08:00	07:02 18:16-18:24/8	06:53	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:33-16:35/2	07:58	06:59 18:16-18:26/10	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:32-16:37/5	07:57	06:57 18:16-18:27/11	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:32-16:39/7	07:55	06:55 18:17-18:28/11	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:32-16:41/9	07:53	06:53 18:19-18:26/7	06:44 20:17-20:20/3	05:51	05:30
	17:12	18:07	18:56	20:47	21:34	22:04
20	08:39 16:32-16:43/11	07:51	06:50	06:42 20:17-20:22/5	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:31-16:44/13	07:49	06:48	06:40 20:16-20:23/7	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:31-16:46/15	07:47	06:46	06:38 20:16-20:25/9	05:47	05:30
	17:17	18:12	19:01	20:52	21:38	22:05
23	08:36 16:31-16:48/17	07:45	06:44	06:36 20:16-20:26/10	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:32-16:50/18	07:43	06:41	06:34 20:16-20:28/12	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:31-16:51/20	07:41	06:39	06:32 20:17-20:29/12	05:43	05:31
	17:22	18:18	19:06	20:57	21:42	22:05
26	08:32 16:32-16:53/21	07:39	06:37	06:30 20:18-20:27/9	05:42	05:31
	17:24	18:20	19:07	20:58	21:44	22:05
27	08:31 16:32-16:52/20	07:36	06:35	06:28 20:21-20:24/3	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 16:33-16:53/20	07:34	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 16:33-16:52/19		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:35-16:52/17		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 17:01-17:03/2		07:26		05:37	
	17:33 16:36-16:51/15		20:15		21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	231	211	88	70	5	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:57-18:58/1	07:37	16:29-16:47/18	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46		07:38	16:28-16:50/22	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:28-16:48/20	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:27-16:46/19	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:27-16:44/17	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17		07:05		07:53		07:45	16:28-16:42/14	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18		07:07		07:54		07:47	16:28-16:41/13	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20		07:08		07:56	18:35-18:42/7	07:49	16:29-16:39/10	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:50-20:51/1	07:10		07:58	18:32-18:40/8	07:51	16:30-16:38/8	08:36
	22:00	21:20		20:16		19:08		17:07	16:10-16:19/9	16:39
10	05:41	06:23	20:48-20:50/2	07:11		07:59	18:32-18:38/6	07:52	16:31-16:36/5	08:37
	22:00	21:18		20:13		19:05		17:06	16:09-16:21/12	16:38
11	05:42	06:24	20:46-20:48/2	07:13		08:01	18:31-18:36/5	07:54	16:33-16:35/2	08:38
	21:59	21:16		20:11		19:03		17:04	16:07-16:23/16	16:38
12	05:43	06:26		07:14		08:02	18:30-18:33/3	07:56	16:06-16:23/17	08:40
	21:58	21:15		20:09		19:01		17:03		16:38
13	05:44	06:27		07:16		08:04		07:57	16:05-16:24/19	08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29		07:18		08:06		07:59	16:05-16:24/19	08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30		07:19		08:07		08:01	16:05-16:25/20	08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:27-20:32/5	07:21		08:09		08:03	16:05-16:26/21	08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:24-20:34/10	07:22		08:11		08:04	16:05-16:25/20	08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:23-20:35/12	07:24		08:13		08:06	16:06-16:24/18	08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:22-20:33/11	07:25		08:14		08:08	16:05-16:22/17	08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:22-20:32/10	07:27		08:16		08:09	16:06-16:21/15	08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:21-20:29/8	07:29		08:18		08:11	16:07-16:20/13	08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:21-20:28/7	07:30		08:19		08:12	16:08-16:19/11	08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:20-20:25/5	07:32		08:21		08:14	16:08-16:17/9	08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:21-20:24/3	07:33	19:04-19:08/4	08:23		08:16	16:09-16:16/7	08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46		07:35	19:00-19:10/10	07:24		08:17	16:10-16:15/5	08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48		07:37	18:59-19:10/11	07:26		08:19	16:11-16:14/3	08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49		07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51		07:40	18:57-19:05/8	07:30	16:35-16:40/5	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:32-16:43/11	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:56-19:00/4	07:33	16:30-16:45/15	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:29-16:46/17			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	76		53		78		399		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	07:45-07:51/6	06:20		05:36	06:24-06:41/17
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21	07:46-07:48/2	06:18		05:35	06:25-06:41/16
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	06:25-06:40/15
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:14		05:34	06:25-06:40/15
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	06:27-06:40/13
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12	07:34-07:36/2	06:11		05:33	06:27-06:39/12
	16:54	17:43	18:33		20:25		21:14		21:56	
7	08:48	08:14	07:19	07:44-07:53/9	07:10	07:32-07:37/5	06:09		05:32	06:28-06:39/11
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:42-07:55/13	07:08	07:30-07:36/6	06:07		05:32	06:00-06:02/2
	16:56	17:47	18:37		20:28		21:17		21:57	06:28-06:38/10
9	08:47	08:11	07:15	07:41-07:56/15	07:05	07:28-07:35/7	06:06		05:31	06:00-06:03/3
	16:57	17:49	18:38		20:30		21:19		21:58	06:29-06:38/9
10	08:47	08:09	07:13	07:39-07:56/17	07:03	07:30-07:33/3	06:04		05:31	06:00-06:04/4
	16:59	17:51	18:40		20:32		21:21		21:59	06:31-06:37/6
11	08:46	08:08	07:10	07:39-07:56/17	07:01		06:02		05:30	05:59-06:04/5
	17:00	17:53	18:42		20:33		21:22		22:00	06:31-06:36/5
12	08:46	08:06	07:08	07:39-07:56/17	06:59		06:01		05:30	05:59-06:05/6
	17:02	17:54	18:44		20:35		21:24		22:00	06:33-06:35/2
13	08:45	08:04	07:06	07:38-07:55/17	06:57		05:59		05:30	05:59-06:06/7
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:38-07:54/16	06:54		05:58	06:29-06:34/5	05:30	05:59-06:06/7
	17:04	17:58	18:47		20:38		21:27		22:01	
15	08:44	08:00	07:01	07:39-07:53/14	06:52		05:56	06:27-06:37/10	05:29	05:59-06:07/8
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:41-07:51/10	06:50		05:55	06:26-06:38/12	05:29	05:59-06:07/8
	17:07	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:44-07:46/2	06:48		05:53	06:24-06:39/15	05:29	05:59-06:07/8
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55		06:46		05:52	06:24-06:40/16	05:29	05:59-06:07/8
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:52		06:44		05:51	06:23-06:40/17	05:29	05:59-06:08/9
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50		06:42		05:49	06:23-06:41/18	05:29	05:59-06:08/9
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48		06:40		05:48	06:22-06:41/19	05:30	05:59-06:08/9
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	06:22-06:41/19	05:30	06:00-06:09/9
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43		06:36		05:45	06:22-06:41/19	05:30	06:00-06:09/9
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:43	06:41		06:34		05:44	06:22-06:42/20	05:30	06:00-06:09/9
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39		06:32		05:43	06:22-06:42/20	05:31	06:01-06:09/8
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:22-06:42/20	05:31	06:01-06:09/8
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:22-06:42/20	05:31	06:01-06:09/8
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:22-06:41/19	05:32	06:02-06:09/7
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	07:52-07:53/1	06:24		05:39	06:22-06:41/19	05:32	06:02-06:09/7
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	07:50-07:53/3	06:22		05:38	06:23-06:42/19	05:33	06:03-06:09/6
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	07:48-07:53/5			05:37	06:24-06:41/17		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	156		31		304		295	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:10/6	06:09	06:57	07:44 08:17-08:35/18	07:36	08:26
	22:04 06:37-06:41/4	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:09/5	06:10	06:59 07:28-07:31/3	07:46 08:17-08:35/18	07:38	08:27
	22:04 06:35-06:41/6	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:09/4	06:12	07:00 07:26-07:33/7	07:48 08:17-08:34/17	07:40	08:29
	22:04 06:35-06:43/8	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:09/3	06:13	07:02 07:27-07:33/6	07:49 08:17-08:33/16	07:42	08:30
	22:03 06:35-06:44/9	21:29	20:27	19:19	17:16	16:40
5	05:36 06:06-06:07/1	06:15	07:03 07:29-07:34/5	07:51 08:18-08:32/14	07:43	08:31
	22:03 06:33-06:44/11	21:27	20:24	19:16	17:14	16:40
6	05:37 06:33-06:45/12	06:16	07:05 07:30-07:33/3	07:52 08:19-08:30/11	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:33-06:46/13	06:18	07:06	07:54 08:21-08:28/7	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:33-06:47/14	06:19	07:08	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:33-06:48/15	06:21	07:10	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:33-06:48/15	06:23	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:32-06:49/17	06:24	07:13 07:38-07:44/6	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:32-06:49/17	06:26	07:14 07:39-07:44/5	08:02	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:32-06:50/18	06:27	07:16 07:41-07:44/3	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:32-06:50/18	06:29	07:17 07:42-07:43/1	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 06:32-06:51/19	06:30	07:19	08:07	08:01	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:32-06:51/19	06:32	07:21	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:31-06:51/20	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:31-06:51/20	06:35	07:24	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51 06:31-06:51/20	06:37	07:25	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:31-06:51/20	06:38	07:27	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 06:32-06:52/20	06:40	07:28	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 06:32-06:51/19	06:41	07:30	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:32-06:51/19	06:43	07:32	08:21	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:33-06:50/17	06:44	07:33	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:34-06:51/17	06:46	07:35	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:34-06:50/16	06:48	07:36	07:26	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02 06:35-06:49/14	06:49	07:38 08:24-08:32/8	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:37-06:48/11	06:51	07:40 08:21-08:33/12	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:38-06:46/8	06:52	07:41 08:20-08:34/14	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43 08:18-08:34/16	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	455	0	89	101	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May	June	
1	08:50	08:24		07:32	08:26-08:44/18	07:23		06:20	05:36	
	16:48	17:35		18:25		20:17		21:06	21:51	
2	08:50	08:22		07:30	08:28-08:42/14	07:21	07:43-07:46/3	06:18	05:35	
	16:49	17:36		18:26		20:19		21:08	21:52	
3	08:49	08:21		07:28	08:30-08:40/10	07:19	07:41-07:47/6	06:16	05:35	
	16:50	17:38		18:28		20:20		21:09	21:53	
4	08:49	08:19		07:26		07:16	07:39-07:47/8	06:14	05:34	
	16:51	17:40		18:30		20:22		21:11	21:54	
5	08:49	08:18		07:24		07:14	07:37-07:47/10	06:13	05:33	
	16:52	17:42		18:32		20:24		21:13	21:55	
6	08:49	08:16		07:21		07:12	07:35-07:46/11	06:11	05:33	
	16:54	17:44		18:33		20:25		21:14	21:56	
7	08:48	08:14		07:19		07:10	07:36-07:45/9	06:09	05:32	
	16:55	17:45		18:35		20:27		21:16	21:56	
8	08:48	08:13		07:17		07:08	07:37-07:43/6	06:07	05:32	06:24-06:27/3
	16:56	17:47		18:37		20:28		21:17	21:57	
9	08:47	08:11		07:15		07:05		06:06	05:31	06:22-06:30/8
	16:57	17:49		18:38		20:30		21:19	21:58	
10	08:47	08:09		07:13		07:03		06:04	05:31	06:22-06:31/9
	16:59	17:51		18:40		20:32		21:21	21:59	
11	08:46	08:08		07:10		07:01		06:02	05:30	06:20-06:32/12
	17:00	17:53		18:42		20:33		21:22	22:00	
12	08:46	08:06		07:08		06:59		06:01	05:30	06:20-06:33/13
	17:02	17:54		18:44		20:35		21:24	22:00	
13	08:45	08:04		07:06		06:57		05:59	05:30	06:20-06:34/14
	17:03	17:56		18:45		20:37		21:25	22:01	
14	08:44	08:02		07:04		06:54		05:58	05:30	06:20-06:34/14
	17:04	17:58		18:47		20:38		21:27	22:02	
15	08:44	08:00		07:01		06:52		05:56	05:29	06:20-06:35/15
	17:06	18:00		18:49		20:40		21:28	22:02	
16	08:43	07:58	08:34-08:40/6	06:59		06:50		05:55	05:29	06:20-06:36/16
	17:08	18:02		18:50		20:42		21:30	22:03	
17	08:42	07:56	08:31-08:43/12	06:57		06:48		05:53	05:29	06:20-06:36/16
	17:09	18:03		18:52		20:43		21:31	22:03	
18	08:41	07:55	08:29-08:45/16	06:55		06:46		05:52	05:29	06:20-06:36/16
	17:11	18:05		18:54		20:45		21:33	22:03	
19	08:40	07:53	08:28-08:46/18	06:52		06:44		05:51	05:29	06:20-06:37/17
	17:12	18:07		18:55		20:47		21:34	22:04	
20	08:39	07:51	08:26-08:47/21	06:50		06:42		05:49	05:29	06:20-06:37/17
	17:14	18:09		18:57		20:48		21:35	22:04	
21	08:38	07:49	08:26-08:48/22	06:48		06:40		05:48	05:30	06:20-06:37/17
	17:16	18:11		18:59		20:50		21:37	22:04	
22	08:37	07:47	08:25-08:48/23	06:46		06:38		05:47	05:30	06:21-06:38/17
	17:17	18:12		19:00		20:52		21:38	22:05	
23	08:36	07:45	08:25-08:49/24	06:43		06:36		05:45	05:30	06:21-06:38/17
	17:19	18:14		19:02		20:53		21:39	22:05	
24	08:35	07:43	08:25-08:49/24	06:41	07:04-07:05/1	06:34		05:44	05:30	06:21-06:38/17
	17:21	18:16		19:04		20:55		21:41	22:05	
25	08:34	07:40	08:25-08:48/23	06:39	07:01-07:05/4	06:32		05:43	05:31	06:21-06:37/16
	17:22	18:18		19:05		20:56		21:42	22:05	
26	08:32	07:38	08:25-08:48/23	06:37	06:59-07:05/6	06:30		05:42	05:31	06:22-06:38/16
	17:24	18:19		19:07		20:58		21:43	22:05	
27	08:31	07:36	08:26-08:47/21	06:34	06:57-07:05/8	06:28		05:41	05:31	06:22-06:37/15
	17:26	18:21		19:09		21:00		21:45	22:05	
28	08:30	07:34	08:25-08:46/21	06:32	06:54-07:04/10	06:26		05:40	05:32	06:23-06:38/15
	17:27	18:23		19:10		21:01		21:46	22:05	
29	08:28			07:30	07:55-08:03/8	06:24		05:39	05:32	06:23-06:37/14
	17:29			20:12		21:03		21:47	22:05	
30	08:27			07:28	07:58-08:00/2	06:22		05:38	05:33	06:24-06:37/13
	17:31			20:14		21:05		21:48	22:04	
31	08:25			07:25				05:37		
	17:33			20:15				21:49		
Potential sun hours	262	279		367		415		482	495	
Sum of minutes with flicker	0	254		81		53		0	327	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:27-06:36/9	06:12	07:00	07:48	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:29-06:35/6	06:13	07:02 07:34-07:40/6	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:36	06:15	07:03 07:33-07:42/9	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05 07:31-07:42/11	07:52	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06 07:32-07:42/10	07:54	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39	06:19	07:08 07:33-07:41/8	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 07:35-07:41/6	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41	06:23	07:11 07:36-07:39/3	07:59 09:07-09:11/4	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 09:03-09:15/12	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 09:00-09:16/16	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:59-09:18/19	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 07:46-07:53/7	08:06 08:58-09:19/21	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:45-07:54/9	08:07 08:58-09:20/22	08:01	08:42
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 07:45-07:54/9	08:09 08:56-09:19/23	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 07:47-07:54/7	08:11 08:56-09:20/24	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 07:49-07:54/5	08:12 08:56-09:20/24	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37	07:25 07:50-07:52/2	08:14 08:56-09:20/24	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 08:57-09:20/23	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 08:56-09:18/22	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:57-09:17/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:58-09:16/18	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:00-09:15/15	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:02-08:13/11	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:07-08:09/2	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	37	0	92	300	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24	07:32 07:59-08:09/10	07:23	06:20	05:36 18:54-19:56/62
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50	08:23	07:30 07:57-08:11/14	07:21	06:18	05:36 18:55-19:57/62
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49	08:21	07:28 07:56-08:12/16	07:19	06:16	05:35 18:54-19:57/63
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49	08:19	07:26 07:55-08:13/18	07:16	06:15	05:34 18:54-19:58/64
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49	08:18	07:24 07:54-08:12/18	07:14	06:13	05:33 18:54-19:59/65
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49	08:16	07:21 07:53-08:12/19	07:12	06:11	05:33 18:54-19:59/65
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48	08:15	07:19 07:53-08:12/19	07:10	06:09	05:32 18:54-20:00/66
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:54-08:12/18	07:08	06:08	05:32 18:53-20:00/67
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:48	08:11	07:15 07:55-08:11/16	07:05	06:06	05:31 18:54-20:00/66
	16:57	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:55-08:08/13	07:03	06:04	05:31 18:54-20:01/67
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46	08:08	07:10 07:56-08:06/10	07:01	06:03	05:30 18:53-20:01/68
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46	08:06	07:08 08:01-08:02/1	06:59	06:01	05:30 18:54-20:01/67
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45	08:04	07:06	06:57	05:59	05:30 18:54-20:02/68
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44	08:02	07:04 07:35-07:45/10	06:55	05:58 19:16-19:30/14	05:30 18:54-20:02/68
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44	08:00	07:02 07:32-07:47/15	06:52	05:56 19:12-19:35/23	05:30 18:54-20:03/69
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58	06:59 07:31-07:48/17	06:50	05:55 19:10-19:38/28	05:29 18:54-20:03/69
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42	07:56	06:57 07:29-07:48/19	06:48	05:53 19:07-19:39/32	05:29 18:55-20:03/68
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:55	06:55 07:28-07:49/21	06:46	05:52 19:05-19:41/36	05:29 18:55-20:04/69
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40	07:53	06:53 07:27-07:49/22	06:44	05:51 19:04-19:43/39	05:29 18:55-20:04/69
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51	06:50 07:27-07:49/22	06:42	05:49 19:03-19:45/42	05:29 18:55-20:04/69
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48 07:26-07:48/22	06:40	05:48 19:01-19:45/44	05:30 18:55-20:04/69
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46 07:26-07:48/22	06:38	05:47 19:00-19:47/47	05:30 18:56-20:05/69
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:44 07:27-07:47/20	06:36	05:45 18:59-19:48/49	05:30 18:56-20:05/69
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41 07:28-07:46/18	06:34	05:44 18:58-19:49/51	05:30 18:56-20:05/69
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:41	06:39 07:28-07:43/15	06:32	05:43 18:58-19:50/52	05:31 18:56-20:05/69
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38	06:37 07:30-07:41/11	06:30	05:42 18:57-19:51/54	05:31 18:57-20:05/68
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36	06:34 07:34-07:36/2	06:28	05:41 18:57-19:52/55	05:31 18:56-20:05/69
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 08:03-08:05/2	06:32	06:26	05:40 18:56-19:52/56	05:32 18:57-20:06/69
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39 18:55-19:53/58	05:32 18:57-20:05/68
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22	05:38 18:56-19:55/59	05:33 18:58-20:06/68
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25		05:37 18:55-19:55/60	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	0	2	408	0	799	2018

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:58-20:06/68	06:09	06:57	07:44	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 18:58-20:05/67	06:10	06:59	07:46 08:36-08:44/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 18:59-20:06/67	06:12	07:00	07:48 08:33-08:45/12	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 18:59-20:06/67	06:13	07:02	07:49 08:32-08:47/15	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 18:59-20:05/66	06:15	07:03	07:51 08:31-08:48/17	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 19:00-20:05/65	06:16	07:05	07:53 08:30-08:48/18	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 19:00-20:05/65	06:18	07:06	07:54 08:29-08:48/19	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 19:01-20:05/64	06:20	07:08	07:56 08:29-08:48/19	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 19:02-20:05/63	06:21	07:10	07:57 08:29-08:47/18	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 19:02-20:05/63	06:23	07:11	07:59 08:29-08:46/17	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 19:03-20:04/61	06:24	07:13	08:01 08:30-08:46/16	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 19:03-20:04/61	06:26	07:14	08:02 08:32-08:44/12	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 19:04-20:04/60	06:27	07:16	08:04 08:33-08:41/8	07:57	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45 19:04-20:03/59	06:29	07:17	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 19:05-20:02/57	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47 19:06-20:02/56	06:32	07:21	08:09	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49 19:06-20:01/55	06:33	07:22 08:19-08:29/10	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 19:07-20:00/53	06:35	07:24 08:16-08:30/14	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51 19:08-19:59/51	06:37	07:25 08:15-08:32/17	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 19:08-19:58/50	06:38	07:27 08:14-08:33/19	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 19:10-19:58/48	06:40	07:28 08:12-08:33/21	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 19:11-19:57/46	06:41	07:30 08:12-08:34/22	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 19:12-19:55/43	06:43	07:32 08:11-08:33/22	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 19:13-19:54/41	06:44	07:33 08:11-08:33/22	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 19:15-19:53/38	06:46	07:35 08:10-08:32/22	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 19:16-19:51/35	06:48	07:36 08:11-08:31/20	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 19:18-19:49/31	06:49	07:38 08:12-08:30/18	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 19:21-19:47/26	06:51	07:40 08:12-08:28/16	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 19:24-19:44/20	06:52	07:41 08:15-08:27/12	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 19:28-19:38/10	06:54	07:43 08:17-08:22/5	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	1556	0	240	179	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:11-15:27/16 16:48	08:24 17:35	07:32 08:32-09:09/37 18:25	07:23 19:02-19:30/28 20:17	06:20 21:06	05:36 06:04-06:06/2 21:51
2	08:50 15:12-15:27/15 16:49	08:23 17:36	07:30 08:32-09:09/37 18:26	07:21 19:02-19:31/29 20:19	06:18 21:08	05:36 06:04-06:07/3 21:52
3	08:49 15:14-15:27/13 16:50	08:21 09:07-09:09/2 17:38	07:28 08:32-09:09/37 18:28	07:19 19:01-19:31/30 20:20	06:16 21:09	05:35 06:03-06:06/3 21:53
4	08:49 15:14-15:27/13 16:51	08:19 09:03-09:14/11 17:40	07:26 08:32-09:09/37 18:30	07:17 19:01-19:31/30 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 15:16-15:27/11 16:52	08:18 09:01-09:16/15 17:42	07:24 08:31-09:07/36 18:32	07:14 19:01-19:31/30 20:24	06:13 21:13	05:33 06:02-06:06/4 21:55
6	08:49 15:18-15:25/7 16:54	08:16 08:59-09:17/18 17:44	07:21 08:31-09:07/36 18:33	07:12 19:01-19:30/29 20:25	06:11 21:14	05:33 06:01-06:05/4 21:56
7	08:48 15:21-15:24/3 16:55	08:15 08:57-09:18/21 17:45	07:19 08:32-09:06/34 18:35	07:10 19:01-19:29/28 20:27	06:09 21:16	05:32 06:01-06:05/4 21:56
8	08:48 16:56	08:13 08:57-09:20/23 17:47	07:17 08:32-09:06/34 18:37	07:08 19:02-19:28/26 20:29	06:08 21:17	05:32 06:02-06:05/3 21:57
9	08:48 16:57	08:11 08:56-09:21/25 17:49	07:15 08:33-09:05/32 18:39	07:05 19:02-19:28/26 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 08:55-09:21/26 17:51	07:13 08:33-09:02/29 18:40	07:03 19:03-19:26/23 20:32	06:04 21:21	05:31 21:59
11	08:46 17:00	08:08 08:55-09:22/27 17:53	07:10 08:34-09:01/27 18:42	07:01 19:04-19:24/20 20:33	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 08:54-09:22/28 17:54	07:08 08:36-08:59/23 18:44	06:59 19:06-19:22/16 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 08:54-09:22/28 17:56	07:06 08:38-08:56/18 18:45	06:57 19:08-19:20/12 20:37	05:59 21:25	05:30 22:01
14	08:44 17:05	08:02 08:54-09:22/28 17:58	07:04 08:40-08:52/12 18:47	06:55 20:38	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 08:54-09:22/28 18:00	07:02 18:49	06:52 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 08:54-09:21/27 18:02	06:59 18:50	06:50 20:42	05:55 21:30	05:29 22:03
17	08:42 17:09	07:56 08:55-09:21/26 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03
18	08:41 17:11	07:55 08:55-09:20/25 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:29 22:03
19	08:40 17:12	07:53 08:51-08:53/2 18:07 08:56-09:19/23	06:53 18:55	06:44 20:47	05:51 21:34	05:29 22:04
20	08:39 17:14	07:51 08:45-09:17/32 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04
21	08:38 17:16	07:49 08:42-09:16/34 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04
22	08:37 17:17	07:47 08:40-09:13/33 18:12	06:46 19:00	06:38 20:52	05:47 21:38	05:30 22:05
23	08:36 17:19	07:45 08:38-09:09/31 18:14	06:44 19:02	06:36 20:53	05:46 21:40	05:30 22:05
24	08:35 17:21	07:43 08:37-09:06/29 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05
25	08:34 17:22	07:41 08:36-09:07/31 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05
26	08:32 17:24	07:38 08:35-09:08/33 18:19	06:37 18:15-18:22/7 19:07	06:30 20:58	05:42 21:43	05:31 22:05
27	08:31 17:26	07:36 08:34-09:09/35 18:21	06:34 18:11-18:25/14 19:09	06:28 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 08:32-09:08/36 18:23	06:32 18:08-18:26/18 19:10	06:26 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 19:06-19:28/22 20:12	06:24 21:03	05:39 21:47	05:33 22:05
30	08:27 17:31		07:28 19:05-19:30/25 20:14	06:22 21:05	05:38 21:48	05:33 22:04
31	08:26 17:33		07:25 19:04-19:31/27 20:15		05:37 06:05-06:06/1 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	78	677	542	327	1	27

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:04-19:24/20	07:44 09:15-09:36/21	07:37 08:25-08:51/26	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:10	06:59 19:01-19:24/23	07:46 09:14-09:39/25	07:38 08:26-08:50/24	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:00-19:26/26	07:48 09:11-09:39/28	07:40 08:27-08:50/23	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02 18:59-19:25/26	07:49 09:10-09:41/31	07:42 08:27-08:48/21	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:11/4	06:15	07:03 18:58-19:26/28	07:51 09:09-09:42/33	07:44 08:29-08:47/18	08:31 15:06-15:09/3
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:11/4	06:16	07:05 18:57-19:26/29	07:53 09:08-09:42/34	07:45 08:31-08:46/15	08:33 15:04-15:11/7
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:12/4	06:18	07:06 18:57-19:26/29	07:54 09:07-09:43/36	07:47 08:33-08:44/11	08:34 15:04-15:14/10
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 18:55-19:25/30	07:56 09:07-09:43/36	07:49	08:35 15:03-15:15/12
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 18:56-19:25/29	07:57 09:06-09:43/37	07:50	08:36 15:02-15:16/14
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:14/3	06:23	07:11 18:55-19:24/29	07:59 09:06-09:43/37	07:52	08:37 15:02-15:16/14
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:14/2	06:24	07:13 18:55-19:23/28	08:01 09:06-09:43/37	07:54	08:38 15:01-15:17/16
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:15/2	06:26	07:14 18:55-19:22/27	08:02 09:06-09:43/37	07:56	08:39 15:01-15:18/17
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:15/1	06:27	07:16 18:56-19:21/25	08:04 09:05-09:42/37	07:57	08:40 15:01-15:19/18
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 18:56-19:19/23	08:06 09:06-09:41/35	07:59	08:41 15:02-15:19/17
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 18:58-19:17/19	08:07 09:07-09:41/34	08:01	08:42 15:02-15:20/18
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 18:59-19:14/15	08:09 09:06-09:39/33	08:02	08:43 15:02-15:21/19
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:33	07:22 19:02-19:11/9	08:11 09:07-09:38/31	08:04	08:44 15:03-15:22/19
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 09:09-09:37/28	08:06	08:45 15:03-15:22/19
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14 09:10-09:42/32	08:07	08:45 15:03-15:23/20
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 09:12-09:45/33	08:09	08:46 15:04-15:23/19
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:18 09:13-09:47/34	08:11	08:47 15:04-15:23/19
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 09:17-09:48/31	08:12	08:47 15:05-15:24/19
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 09:26-09:50/24	08:14	08:48 15:05-15:24/19
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:25-09:51/26	08:16	08:48 15:05-15:24/19
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:25-08:51/26	08:17	08:48 15:06-15:26/20
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:25-08:52/27	08:19	08:49 15:07-15:26/19
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 08:23-08:51/28	08:20	08:49 15:07-15:26/19
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 08:23-08:51/28	08:22	08:49 15:08-15:26/18
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 09:22-09:31/9	07:31 08:24-08:52/28	08:23	08:49 15:08-15:26/18
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:09-19:21/12	07:43 09:17-09:34/17	07:33 08:24-08:52/28	08:25	08:50 15:09-15:27/18
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55 19:05-19:22/17		07:35 08:24-08:51/27		08:50 15:10-15:27/17
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	27	29	441	962	138	447

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:49-16:06/17	08:24	07:32	07:23	06:20 19:47-20:12/25	05:36
	16:48 11:36-12:20/44	17:35	18:25	20:17	21:06	21:51
2	08:50 15:50-16:06/16	08:23	07:30	07:21	06:18 19:47-20:11/24	05:36 06:04-06:06/2
	16:49 11:37-12:21/44	17:36	18:26	20:19	21:08	21:52
3	08:49 15:51-16:07/16	08:21	07:28	07:19	06:16 19:47-20:10/23	05:35 06:03-06:06/3
	16:50 11:38-12:21/43	17:38	18:28	20:20	21:10	21:53
4	08:49 15:51-16:07/16	08:19	07:26	07:17	06:15 19:49-20:10/21	05:34 06:02-06:06/4
	16:51 11:37-12:21/44	17:40	18:30	20:22	21:11	21:54
5	08:49 15:52-16:07/15	08:18	07:24	07:14	06:13 19:50-20:09/19	05:33 06:02-06:06/4
	16:52 11:38-12:22/44	17:42	18:32	20:24	21:13	21:55
6	08:49 15:52-16:07/15	08:16	07:21 17:59-18:02/3	07:12	06:11 19:50-20:07/17	05:33 06:01-06:06/5
	16:54 11:39-12:21/42	17:44	18:33	20:25	21:14	21:56
7	08:48 15:53-16:08/15	08:15	07:19 17:56-18:06/10	07:10	06:09 19:53-20:06/13	05:32 06:01-06:07/6
	16:55 11:40-12:22/42	17:45	18:35	20:27	21:16	21:56
8	08:48 15:53-16:07/14	08:13	07:17 17:54-18:08/14	07:08	06:08 19:54-20:04/10	05:32 06:01-06:07/6
	16:56 11:40-12:22/42	17:47	18:37	20:29	21:17	21:57
9	08:48 15:55-16:08/13	08:11	07:15 17:52-18:08/16	07:05	06:06	05:31 06:00-06:07/7
	16:58 11:41-12:22/41	17:49	18:39	20:30	21:19	21:58
10	08:47 15:55-16:08/13	08:09	07:13 17:51-18:09/18	07:03	06:04	05:31 06:00-06:07/7
	16:59 11:42-12:22/40	17:51	18:40	20:32	21:21	21:59
11	08:46 15:56-16:07/11	08:08	07:10 17:51-18:09/18	07:01	06:03	05:31 06:00-06:08/8
	17:00 11:42-12:21/39	17:53	18:42	20:34	21:22	22:00
12	08:46 15:58-16:07/9	08:06	07:08 17:51-18:09/18	06:59	06:01	05:30 05:59-06:07/8
	17:02 11:44-12:22/38	17:54	18:44	20:35	21:24	22:00
13	08:45 16:00-16:06/6	08:04	07:06 17:50-18:08/18	06:57	05:59	05:30 05:59-06:07/8
	17:03 11:45-12:22/37	17:56	18:45	20:37	21:25	22:01
14	08:44 11:46-12:21/35	08:02	07:04 17:51-18:08/17	06:55	05:58	05:30 05:59-06:08/9
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:47-12:21/34	08:00	07:02 17:52-18:07/15	06:52	05:56	05:30 05:59-06:08/9
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:48-12:20/32	07:58	06:59 17:53-18:06/13	06:50	05:55	05:29 05:59-06:08/9
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:49-12:19/30	07:57	06:57 17:55-18:02/7	06:48	05:53	05:29 05:59-06:08/9
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:51-12:18/27	07:55	06:55	06:46	05:52	05:29 05:59-06:08/9
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:53-12:17/24	07:53	06:53	06:44 19:56-20:06/10	05:51	05:29 05:59-06:08/9
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:55-12:16/21	07:51	06:50	06:42 19:53-20:09/16	05:49	05:30 05:59-06:08/9
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:57-12:12/15	07:49	06:48	06:40 19:52-20:10/18	05:48	05:30 05:59-06:08/9
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 12:03-12:05/2	07:47	06:46	06:38 19:50-20:11/21	05:47	05:30 06:00-06:09/9
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:44	06:36 19:49-20:12/23	05:46	05:30 06:00-06:09/9
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41	06:34 19:48-20:13/25	05:44	05:30 06:00-06:09/9
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:41	06:39	06:32 19:47-20:13/26	05:43	05:31 06:01-06:10/9
	17:22	18:18	19:05	20:57	21:42	22:05
26	08:32	07:38	06:37	06:30 19:47-20:13/26	05:42	05:31 06:01-06:10/9
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36	06:35	06:28 19:46-20:13/27	05:41	05:32 06:02-06:11/9
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32	06:26 19:46-20:13/27	05:40	05:32 06:02-06:11/9
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24 19:47-20:13/26	05:39	05:33 06:03-06:11/8
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22 19:47-20:13/26	05:38	05:33 06:03-06:11/8
	17:31		20:14	21:05	21:48	22:04
31	08:26		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	936	0	167	271	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:12/8	06:09	06:57	07:44 18:30-18:48/18	07:37	08:26 15:38-15:49/11
	22:04	21:34	20:33	19:25	17:21	16:42 11:24-12:04/40
2	05:34 06:04-06:12/8	06:10	06:59	07:46 18:30-18:48/18	07:38	08:27 15:38-15:51/13
	22:04	21:32	20:31	19:23	17:19	16:41 11:25-12:05/40
3	05:35 06:05-06:12/7	06:12	07:00	07:48 18:29-18:47/18	07:40	08:29 15:38-15:51/13
	22:04	21:30	20:29	19:21	17:17	16:41 11:24-12:05/41
4	05:36 06:06-06:13/7	06:13 20:07-20:11/4	07:02	07:49 18:30-18:46/16	07:42	08:30 15:38-15:52/14
	22:03	21:29	20:27	19:19	17:16	16:40 11:25-12:07/42
5	05:37 06:07-06:13/6	06:15 20:04-20:15/11	07:03	07:51 18:30-18:45/15	07:44	08:31 15:38-15:53/15
	22:03	21:27	20:24	19:16	17:14	16:40 11:25-12:07/42
6	05:37 06:07-06:12/5	06:17 20:01-20:16/15	07:05	07:53 18:31-18:43/12	07:45	08:33 15:38-15:53/15
	22:02	21:25	20:22	19:14	17:12	16:39 11:25-12:07/42
7	05:38 06:08-06:13/5	06:18 20:00-20:18/18	07:06	07:54 18:33-18:41/8	07:47	08:34 15:39-15:54/15
	22:02	21:24	20:20	19:12	17:11	16:39 11:26-12:09/43
8	05:39 06:09-06:13/4	06:20 19:59-20:19/20	07:08	07:56	07:49	08:35 15:39-15:55/16
	22:01	21:22	20:18	19:10	17:09	16:39 11:26-12:09/43
9	05:40 06:10-06:13/3	06:21 19:57-20:19/22	07:10	07:57	07:50	08:36 15:39-15:55/16
	22:00	21:20	20:15	19:08	17:07	16:38 11:26-12:09/43
10	05:41 06:11-06:13/2	06:23 19:57-20:20/23	07:11	07:59	07:52	08:37 15:39-15:55/16
	22:00	21:18	20:13	19:05	17:06	16:38 11:26-12:10/44
11	05:42 06:12-06:13/1	06:24 19:55-20:20/25	07:13	08:01	07:54	08:38 15:39-15:56/17
	21:59	21:16	20:11	19:03	17:04	16:38 11:26-12:10/44
12	05:43	06:26 19:55-20:21/26	07:14	08:02	07:56	08:39 15:40-15:56/16
	21:58	21:14	20:09	19:01	17:03	16:38 11:26-12:11/45
13	05:44	06:27 19:54-20:20/26	07:16	08:04	07:57	08:40 15:40-15:57/17
	21:57	21:13	20:06	18:59	17:01	16:38 11:27-12:12/45
14	05:45	06:29 19:54-20:21/27	07:17	08:06	07:59	08:41 15:41-15:57/16
	21:56	21:11	20:04	18:57	17:00	16:38 11:27-12:12/45
15	05:46	06:30 19:54-20:20/26	07:19	08:07	08:01	08:42 15:41-15:58/17
	21:56	21:09	20:02	18:55	16:59	16:38 11:28-12:13/45
16	05:48	06:32 19:54-20:20/26	07:21	08:09	08:02	08:43 15:42-15:58/16
	21:55	21:07	20:00	18:52	16:57	16:38 11:28-12:13/45
17	05:49	06:34 19:53-20:19/26	07:22	08:11	08:04	08:44 15:42-15:59/17 11:11-11:13/2
	21:54	21:05	19:57	18:50	16:56	16:38 11:29-12:14/45
18	05:50	06:35 19:54-20:19/25	07:24	08:12	08:06	08:45 15:42-15:59/17 11:09-11:14/5
	21:52	21:03	19:55	18:48	16:55	16:39 11:28-12:14/46
19	05:51	06:37 19:54-20:18/24	07:25	08:14	08:07	08:45 15:43-16:00/17 11:09-11:15/6
	21:51	21:01	19:53	18:46	16:53	16:39 11:29-12:15/46
20	05:52	06:38 19:55-20:18/23	07:27	08:16	08:09 11:38-11:40/2	08:46 15:44-16:00/16 11:10-11:17/7
	21:50	20:59	19:50	18:44	16:52	16:39 11:30-12:16/46
21	05:54	06:40 19:55-20:16/21	07:28	08:18	08:11 11:33-11:48/15	08:47 15:44-16:00/16 11:10-11:17/7
	21:49	20:57	19:48	18:42	16:51	16:40 11:30-12:16/46
22	05:55	06:41 19:56-20:14/18	07:30	08:19	08:12 11:31-11:52/21	08:47 15:45-16:01/16 11:11-11:18/7
	21:48	20:55	19:46	18:40	16:50	16:40 11:31-12:17/46
23	05:56	06:43 19:57-20:12/15	07:32	08:21	08:14 11:29-11:53/24	08:48 15:45-16:01/16 11:11-11:18/7
	21:47	20:53	19:44	18:38	16:49	16:41 11:31-12:17/46
24	05:58	06:44 20:00-20:10/10	07:33	08:23	08:16 11:28-11:55/27	08:48 15:45-16:01/16 11:12-11:18/6
	21:45	20:50	19:41	18:36	16:48	16:41 11:31-12:17/46
25	05:59	06:46	07:35	07:24	08:17 11:27-11:57/30	08:48 15:46-16:03/17 11:13-11:18/5
	21:44	20:48	19:39	17:34	16:47	16:42 11:32-12:18/46
26	06:00	06:48	07:36 18:39-18:44/5	07:26	08:19 11:26-11:58/32	08:49 15:46-16:03/17 11:14-11:17/3
	21:43	20:46	19:37	17:32	16:46	16:43 11:33-12:18/45
27	06:02	06:49	07:38 18:36-18:47/11	07:28	08:20 11:26-12:00/34	08:49 15:47-16:03/16
	21:41	20:44	19:34	17:30	16:45	16:43 11:33-12:18/45
28	06:03	06:51	07:40 18:33-18:47/14	07:30	08:22 11:26-12:01/35	08:49 15:47-16:04/17
	21:40	20:42	19:32	17:28	16:44	16:44 11:33-12:19/46
29	06:05	06:52	07:41 18:32-18:48/16	07:31	08:23 15:40-15:46/6	08:49 15:47-16:04/17
	21:38	20:40	19:30	17:26	16:43 11:25-12:02/37	16:45 11:34-12:19/45
30	06:06	06:54	07:43 18:30-18:48/18	07:33	08:25 15:40-15:48/8	08:50 15:48-16:04/16
	21:37	20:38	19:28	17:25	16:43 11:25-12:03/38	16:46 11:34-12:19/45
31	06:08	06:55		07:35		08:50 15:48-16:05/17
	21:35	20:35		17:23		16:47 11:35-12:20/45
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	56	431	64	105	309	1919

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50 07:13-07:15/2	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48 07:11-07:15/4	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46 07:09-07:14/5	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44 07:07-07:13/6	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42 07:08-07:11/3	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	351	167	303	20	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57		07:44	08:24-08:30/6	07:37		08:26	09:00-09:20/20
	22:04	21:34		20:33		19:25	08:09-08:11/2	17:21		16:42	
2	05:34	06:11		06:59		07:46	08:22-08:32/10	07:38		08:27	09:01-09:21/20
	22:04	21:32		20:31		19:23		17:19		16:42	
3	05:35	06:12		07:00		07:48	08:20-08:33/13	07:40		08:29	09:01-09:20/19
	22:03	21:30		20:29		19:21		17:17		16:41	
4	05:36	06:14		07:02		07:49	08:19-08:33/14	07:42		08:30	09:02-09:21/19
	22:03	21:29		20:27		19:19		17:16		16:40	
5	05:37	06:15		07:03		07:51	08:19-08:34/15	07:43		08:31	09:03-09:21/18
	22:03	21:27		20:24		19:16		17:14		16:40	
6	05:38	06:17		07:05		07:53	08:18-08:33/15	07:45		08:33	09:04-09:21/17
	22:02	21:25		20:22		19:14		17:12		16:40	
7	05:38	06:18		07:07		07:54	08:19-08:32/13	07:47		08:34	09:06-09:21/15
	22:02	21:24		20:20		19:12		17:11		16:39	
8	05:39	06:20		07:08		07:56	08:21-08:32/11	07:49		08:35	09:07-09:21/14
	22:01	21:22		20:18		19:10		17:09		16:39	
9	05:40	06:21		07:10		07:57	08:22-08:29/7	07:50		08:36	09:08-09:21/13
	22:00	21:20		20:15		19:08		17:07		16:39	
10	05:41	06:23		07:11		07:59	08:50-08:59/9	07:52		08:37	09:09-09:21/12
	22:00	21:18		20:13		19:05	08:24-08:26/2	17:06		16:38	
11	05:42	06:24		07:13		08:01	08:48-09:01/13	07:54		08:38	09:10-09:21/11
	21:59	21:16		20:11		19:03		17:04		16:38	
12	05:43	06:26		07:14	19:17-19:25/8	08:02	08:47-09:02/15	07:56		08:39	09:11-09:21/10
	21:58	21:14		20:09		19:01		17:03		16:38	
13	05:44	06:27		07:16	19:15-19:26/11	08:04	08:45-09:02/17	07:57		08:40	09:12-09:21/9
	21:57	21:13		20:06		18:59	18:24-18:25/1	17:01		16:38	
14	05:45	06:29		07:18	19:13-19:27/14	08:06	08:44-09:03/19	07:59		08:41	09:13-09:21/8
	21:56	21:11		20:04		18:57	18:21-18:28/7	17:00		16:38	
15	05:47	06:30		07:19	19:12-19:27/15	08:07	08:44-09:03/19	08:01		08:42	09:14-09:21/7
	21:55	21:09		20:02		18:55	18:20-18:27/7	16:59		16:38	
16	05:48	06:32		07:21	19:11-19:27/16	08:09	08:44-09:03/19	08:02		08:43	09:15-09:21/6
	21:54	21:07		20:00		18:53	18:19-18:24/5	16:57		16:38	
17	05:49	06:34		07:22	19:11-19:27/16	08:11	08:44-09:02/18	08:04		08:44	09:16-09:21/5
	21:53	21:05		19:57		18:50	18:19-18:22/3	16:56		16:39	
18	05:50	06:35		07:24	19:10-19:25/15	08:12	08:44-09:02/18	08:06		08:45	09:16-09:20/4
	21:52	21:03		19:55		18:48		16:55		16:39	
19	05:51	06:37		07:25	19:11-19:25/14	08:14	08:45-09:01/16	08:07	09:05-09:09/4	08:45	09:17-09:18/1
	21:51	21:01		19:53		18:46		16:53		16:39	
20	05:53	06:38		07:27	19:12-19:23/11	08:16	08:46-09:00/14	08:09	09:04-09:12/8	08:46	
	21:50	20:59		19:50		18:44		16:52		16:39	
21	05:54	06:40		07:29	19:13-19:20/7	08:18	08:48-08:57/9	08:11	09:03-09:14/11	08:47	
	21:49	20:57		19:48		18:42		16:51		16:40	
22	05:55	06:41		07:30		08:19		08:12	09:02-09:16/14	08:47	
	21:48	20:55		19:46		18:40		16:50		16:40	
23	05:56	06:43	07:11-07:15/4	07:32		08:21		08:14	09:01-09:16/15	08:48	
	21:47	20:53		19:44		18:38		16:49		16:41	
24	05:58	06:45	07:11-07:17/6	07:33		08:23		08:16	09:01-09:17/16	08:48	09:19-09:20/1
	21:45	20:50		19:41		18:36		16:48		16:41	
25	05:59	06:46	07:12-07:17/5	07:35		07:24		08:17	09:02-09:18/16	08:48	09:22-09:24/2
	21:44	20:48		19:39		17:34		16:47		16:42	09:20-09:21/1
26	06:01	06:48	07:14-07:18/4	07:36		07:26		08:19	09:01-09:18/17	08:49	09:20-09:25/5
	21:43	20:46		19:37		17:32		16:46		16:43	
27	06:02	06:49	07:15-07:17/2	07:38	08:05-08:12/7	07:28		08:20	09:02-09:19/17	08:49	09:20-09:26/6
	21:41	20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51		07:40	08:04-08:12/8	07:30		08:22	09:02-09:20/18	08:49	09:20-09:26/6
	21:40	20:42		19:32		17:28		16:44		16:44	
29	06:05	06:52		07:41	08:06-08:12/6	07:31		08:23	09:01-09:19/18	08:49	09:20-09:27/7
	21:38	20:40		19:30		17:27		16:44		16:45	
30	06:06	06:54		07:43	08:08-08:12/4	07:33		08:25	09:01-09:20/19	08:49	09:20-09:28/8
	21:37	20:38		19:28		17:25		16:43		16:46	
31	06:08	06:56				07:35				08:50	09:20-09:29/9
	21:35	20:35				17:23				16:47	
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	21		152		317		173		273	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 08:57-09:09/12	07:32 17:35-17:51/16	07:23	06:20	05:36 06:16-06:35/19
	16:48	17:35	18:25	20:17	21:06	21:50 20:17-20:40/23
2	08:49	08:22 08:58-09:08/10	07:30 17:35-17:51/16	07:21	06:18	05:36 06:17-06:36/19
	16:49	17:36	18:26	20:19	21:08	21:52 20:17-20:42/25
3	08:49	08:21 08:59-09:06/7	07:28 17:36-17:50/14	07:19	06:16	05:35 06:16-06:35/19
	16:50	17:38	18:28	20:20	21:09	21:53 20:16-20:43/27
4	08:49	08:19	07:26 17:37-17:49/12	07:17	06:15	05:34 06:16-06:35/19
	16:51	17:40	18:30	20:22	21:11	21:54 20:15-20:43/28
5	08:49	08:18	07:24 17:39-17:46/7	07:14	06:13	05:34 06:17-06:35/18
	16:53	17:42	18:32	20:24	21:13	21:55 20:15-20:44/29
6	08:49	08:16	07:21	07:12	06:11	05:33 06:17-06:35/18
	16:54	17:44	18:33	20:25	21:14	21:55 20:14-20:45/31
7	08:48	08:14	07:19	07:10	06:09	05:32 06:18-06:35/17
	16:55	17:45	18:35	20:27	21:16	21:56 20:14-20:46/32
8	08:48	08:13	07:17	07:08	06:08	05:32 06:19-06:36/17
	16:56	17:47	18:37	20:29	21:17	21:57 20:13-20:46/33
9	08:47	08:11	07:15	07:05	06:06	05:31 06:18-06:35/17
	16:58	17:49	18:39	20:30	21:19	21:58 20:14-20:47/33
10	08:47	08:09	07:13	07:03	06:04	05:31 06:19-06:35/16
	16:59	17:51	18:40	20:32	21:21	21:59 20:14-20:48/34
11	08:46	08:08	07:10	07:01	06:03	05:31 06:20-06:35/15
	17:00	17:53	18:42	20:33	21:22	22:00 20:14-20:49/35
12	08:46	08:06	07:08	06:59	06:01	05:30 06:19-06:35/16
	17:02	17:54	18:44	20:35	21:24	22:00 20:13-20:48/35
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:35/15
	17:03	17:56	18:45	20:37	21:25	22:01 20:13-20:49/36
14	08:44	08:02 08:26-08:28/2	07:04	06:55	05:58	05:30 06:20-06:35/15
	17:05	17:58	18:47	20:38	21:27	22:01 20:14-20:49/35
15	08:44	08:00 08:24-08:27/3	07:02	06:52	05:56	05:30 06:21-06:35/14
	17:06	18:00	18:49	20:40	21:28	22:02 20:14-20:50/36
16	08:43	07:58 08:22-08:26/4	06:59	06:50	05:55	05:30 06:21-06:35/14
	17:08	18:02	18:50	20:42	21:30	22:03 20:14-20:50/36
17	08:42	07:56	06:57	06:48	05:53	05:29 06:22-06:35/13
	17:09	18:03	18:52	20:43	21:31	22:03 20:14-20:51/37
18	08:41	07:55	06:55 07:17-07:19/2	06:46	05:52	05:29 06:22-06:35/13
	17:11	18:05	18:54	20:45	21:32	22:03 20:14-20:51/37
19	08:40	07:53	06:53 07:15-07:20/5	06:44	05:51 06:21-06:29/8	05:30 06:22-06:35/13
	17:12	18:07	18:55	20:47	21:34	22:04 20:14-20:51/37
20	08:39	07:51	06:50 07:13-07:20/7	06:42	05:49 06:20-06:30/10	05:30 06:22-06:35/13
	17:14	18:09	18:57	20:48	21:35	22:04 20:14-20:51/37
21	08:38	07:49	06:48 07:10-07:19/9	06:40	05:48 06:19-06:32/13	05:30 06:22-06:35/13
	17:16	18:11	18:59	20:50	21:37	22:04 20:14-20:51/37
22	08:37	07:47 08:10-08:11/1	06:46 07:08-07:18/10	06:38	05:47 06:17-06:32/15	05:30 06:23-06:36/13
	17:17	18:12	19:00	20:52	21:38	22:04 20:15-20:52/37
23	08:36 09:03-09:04/1	07:45 17:41-17:46/5	06:44 07:10-07:17/7	06:36	05:46 06:17-06:32/15	05:30 06:23-06:36/13
	17:19	18:14 08:08-08:12/4	19:02 07:06-07:09/3	20:53	21:39	22:05 20:15-20:52/37
24	08:35 09:02-09:06/4	07:43 17:39-17:49/10	06:41 07:04-07:09/5	06:34	05:44 06:16-06:33/17	05:30 06:23-06:36/13
	17:21	18:16 08:06-08:12/6	19:04	20:55	21:41	22:05 20:15-20:52/37
25	08:34 09:00-09:06/6	07:40 17:37-17:51/14	06:39 07:01-07:07/6	06:32	05:43 06:16-06:34/18	05:31 06:24-06:37/13
	17:22	18:18 08:04-08:12/8	19:05	20:56	21:42	22:05 20:16-20:53/37
26	08:32 08:59-09:08/9	07:38 17:36-17:52/16	06:37 07:02-07:04/2	06:30	05:42 06:16-06:34/18	05:31 06:23-06:37/14
	17:24	18:19 08:02-08:12/10	19:07	20:58	21:43	22:05 20:16-20:53/37
27	08:31 08:57-09:08/11	07:36 17:35-17:51/16	06:34	06:28	05:41 06:15-06:34/19	05:32 06:24-06:38/14
	17:26	18:21 08:03-08:11/8	19:09	21:00	21:45 20:25-20:31/6	22:05 20:16-20:52/36
28	08:30 08:56-09:09/13	07:34 17:35-17:51/16	06:32	06:26	05:40 06:15-06:34/19	05:32 06:24-06:38/14
	17:28	18:23 08:04-08:08/4	19:10	21:01	21:46 20:22-20:34/12	22:05 20:17-20:53/36
29	08:28 08:55-09:09/14		07:30	06:24	05:39 06:16-06:35/19	05:33 06:24-06:39/15
	17:29		20:12	21:03	21:47 20:21-20:37/16	22:05 20:16-20:52/36
30	08:27 08:55-09:09/14		07:28	06:22	05:38 06:16-06:35/19	05:33 06:24-06:39/15
	17:31		20:14	21:05	21:48 20:19-20:38/19	22:04 20:17-20:53/36
31	08:25 08:56-09:09/13		07:25		05:37 06:16-06:35/19	
	17:33		20:15		21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	85	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 08:32-08:41/9	08:43
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 08:34-08:40/6	08:44
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 08:36-08:40/4	08:45
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 08:37-08:38/1	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09	08:46
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14	08:48
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May	June
1	08:50	15:12-15:51/39	08:24	17:01-17:05/4	07:32		07:23		06:20	05:36
	16:48		17:35	16:20-16:55/35	18:25		20:17		21:06	21:51
2	08:50	15:13-15:52/39	08:23	17:00-17:07/7	07:30		07:21	19:50-19:53/3	06:18	05:36
	16:49		17:36	16:20-16:55/35	18:26		20:19		21:08	21:52
3	08:49	15:14-15:53/39	08:21	17:00-17:09/9	07:28		07:19	19:48-19:55/7	06:16	05:35
	16:50		17:38	16:19-16:56/37	18:28		20:20		21:10	21:53
4	08:49	15:14-15:52/38	08:19	17:01-17:11/10	07:26		07:17	19:47-19:57/10	06:15	05:34
	16:51		17:40	16:19-16:57/38	18:30		20:22		21:11	21:54
5	08:49	15:14-15:53/39	08:18	17:01-17:13/12	07:24		07:14	19:46-19:58/12	06:13	05:33
	16:53		17:42	16:19-16:57/38	18:32		20:24		21:13	21:55
6	08:49	15:14-15:53/39	08:16	17:01-17:15/14	07:21		07:12	19:44-19:59/15	06:11	05:33
	16:54		17:44	16:19-16:57/38	18:33		20:25		21:14	21:56
7	08:48	15:15-15:54/39	08:15	17:02-17:15/13	07:19		07:10	19:44-20:01/17	06:09	05:32
	16:55		17:45	16:19-16:57/38	18:35		20:27		21:16	21:57
8	08:48	15:15-15:54/39	08:13	17:04-17:15/11	07:17		07:08	19:44-20:03/19	06:08	05:32
	16:56		17:47	16:20-16:58/38	18:37		20:29		21:17	21:57
9	08:48	15:16-15:55/39	08:11	17:05-17:13/8	07:15		07:05	19:44-20:03/19	06:06	05:31
	16:58		17:49	16:20-16:58/38	18:39		20:30		21:19	21:58
10	08:47	15:16-15:55/39	08:09	16:20-16:57/37	07:13		07:03	19:44-20:03/19	06:04	05:31
	16:59		17:51		18:40		20:32		21:21	21:59
11	08:47	15:17-15:55/38	08:08	16:20-16:57/37	07:11	18:14-18:17/3	07:01	19:44-20:01/17	06:03	05:31
	17:00		17:53		18:42		20:34		21:22	22:00
12	08:46	15:18-15:56/38	08:06	16:21-16:56/35	07:08	18:13-18:19/6	06:59	19:45-19:59/14	06:01	05:30
	17:02		17:54		18:44		20:35		21:24	22:00
13	08:45	15:18-15:56/38	08:04	16:21-16:56/35	07:06	18:11-18:20/9	06:57	19:47-19:58/11	05:59	05:30
	17:03		17:56		18:45		20:37		21:25	22:01
14	08:45	15:19-15:56/37	08:02	16:22-16:55/33	07:04	18:11-18:22/11	06:55	19:50-19:54/4	05:58	05:30
	17:05		17:58		18:47		20:38		21:27	22:02
15	08:44	15:20-15:56/36	08:00	16:23-16:54/31	07:02	18:11-18:24/13	06:52		05:56	05:30
	17:06		18:00		18:49		20:40		21:28	22:02
16	08:43	15:20-15:56/36	07:58	16:24-16:53/29	06:59	18:11-18:26/15	06:50		05:55	05:30
	17:08		18:02		18:50		20:42		21:30	22:03
17	08:42	15:21-15:56/35	07:57	16:26-16:52/26	06:57	18:11-18:25/14	06:48		05:53	05:29
	17:09		18:03		18:52		20:43		21:31	22:03
18	08:41	15:22-15:56/34	07:55	16:28-16:50/22	06:55	18:13-18:24/11	06:46		05:52	05:29
	17:11		18:05		18:54		20:45		21:33	22:04
19	08:40	15:23-15:56/33	07:53	16:30-16:48/18	06:53	18:15-18:22/7	06:44		05:51	05:29
	17:12		18:07		18:55		20:47		21:34	22:04
20	08:39	15:24-15:56/32	07:51	16:33-16:45/12	06:50		06:42		05:49	05:30
	17:14		18:09		18:57		20:48		21:35	22:04
21	08:38	15:24-15:55/31	07:49		06:48		06:40		05:48	05:30
	17:16		18:11		18:59		20:50		21:37	22:04
22	08:37	16:30-16:38/8	07:47		06:46		06:38		05:47	05:30
	17:17	15:26-15:55/29	18:12		19:00		20:52		21:38	22:05
23	08:36	16:28-16:42/14	07:45		06:44		06:36		05:46	05:30
	17:19	15:27-15:54/27	18:14		19:02		20:53		21:40	22:05
24	08:35	16:26-16:45/19	07:43		06:41		06:34		05:44	05:30
	17:21	15:29-15:54/25	18:16		19:04		20:55		21:41	22:05
25	08:34	16:24-16:46/22	07:41		06:39		06:32		05:43	05:31
	17:22	15:30-15:52/22	18:18		19:05		20:57		21:42	22:05
26	08:32	16:24-16:48/24	07:39		06:37		06:30		05:42	05:31
	17:24	15:33-15:51/18	18:19		19:07		20:58		21:43	22:05
27	08:31	16:22-16:49/27	07:36		06:35		06:28		05:41	05:32
	17:26	15:35-15:48/13	18:21		19:09		21:00		21:45	22:05
28	08:30	16:22-16:51/29	07:34		06:32		06:26		05:40	05:32
	17:28	15:40-15:45/5	18:23		19:10		21:01		21:46	22:05
29	08:28	16:21-16:52/31			07:30		06:24		05:39	05:33
	17:29				20:12		21:03		21:47	22:05
30	08:27	16:21-16:53/32			07:28		06:22		05:38	05:33
	17:31				20:14		21:05		21:48	22:05
31	08:26	17:01-17:03/2			07:26				05:37	
	17:33	16:20-16:54/34			20:15				21:49	
Potential sun hours	262		279		367		415		482	495
Sum of minutes with flicker	1158		738		89		167		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:44-20:01/17	07:44 18:52-18:58/6	07:37 16:38-16:40/2	08:26 14:59-15:37/38
	22:04	21:34	20:33	19:25	17:21 15:49-16:27/38	16:42
2	05:34	06:11	06:59 19:42-20:01/19	07:46 18:52-18:56/4	07:38 16:35-16:43/8	08:27 15:00-15:38/38
	22:04	21:32	20:31	19:23	17:19 15:49-16:27/38	16:41
3	05:35	06:12	07:00 19:42-20:01/19	07:48 18:53-18:54/1	07:40 16:32-16:44/12	08:29 14:59-15:38/39
	22:04	21:30	20:29	19:21	17:17 15:49-16:27/38	16:41
4	05:36	06:14	07:02 19:41-20:00/19	07:49	07:42 16:31-16:45/14	08:30 15:00-15:39/39
	22:03	21:29	20:27	19:19	17:16 15:48-16:27/39	16:40
5	05:37	06:15	07:03 19:41-19:58/17	07:51	07:44 16:31-16:44/13	08:31 15:00-15:39/39
	22:03	21:27	20:24	19:16	17:14 15:49-16:27/38	16:40
6	05:37	06:17	07:05 19:40-19:55/15	07:53	07:45 16:30-16:42/12	08:33 15:00-15:39/39
	22:02	21:25	20:22	19:14	17:12 15:49-16:27/38	16:39
7	05:38	06:18	07:07 19:41-19:54/13	07:54	07:47 16:30-16:41/11	08:34 15:01-15:40/39
	22:02	21:24	20:20	19:12	17:11 15:49-16:27/38	16:39
8	05:39	06:20	07:08 19:41-19:51/10	07:56	07:49 16:31-16:39/8	08:35 15:02-15:40/38
	22:01	21:22	20:18	19:10	17:09 15:50-16:26/36	16:39
9	05:40	06:21	07:10 19:42-19:49/7	07:57	07:51 16:31-16:38/7	08:36 15:02-15:41/39
	22:00	21:20	20:15	19:08	17:07 15:50-16:26/36	16:39
10	05:41	06:23	07:11 19:43-19:46/3	07:59	07:52 16:32-16:36/4	08:37 15:02-15:41/39
	22:00	21:18	20:13	19:05	17:06 15:51-16:26/35	16:38
11	05:42	06:24	07:13	08:01	07:54 16:33-16:35/2	08:38 15:03-15:41/38
	21:59	21:16	20:11	19:03	17:04 15:52-16:26/34	16:38
12	05:43	06:26	07:14	08:02	07:56 15:52-16:24/32	08:39 15:03-15:42/39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04	07:57 15:53-16:24/31	08:40 15:03-15:42/39
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:18	08:06	07:59 15:54-16:23/29	08:41 15:04-15:42/38
	21:57	21:11	20:04	18:57	17:00 15:12-15:17/5	16:38
15	05:46	06:30	07:19	08:07	08:01 15:55-16:22/27	08:42 15:05-15:43/38
	21:56	21:09	20:02	18:55	16:59 15:08-15:21/13	16:38
16	05:48	06:32	07:21	08:09	08:03 15:57-16:21/24	08:43 15:05-15:44/39
	21:55	21:07	20:00	18:53	16:57 15:06-15:24/18	16:38
17	05:49	06:34	07:22	08:11	08:04 15:58-16:20/22	08:44 15:06-15:44/38
	21:54	21:05	19:57	18:50	16:56 15:04-15:26/22	16:38
18	05:50	06:35	07:24	08:12	08:06 16:00-16:19/19	08:45 15:06-15:44/38
	21:53	21:03	19:55	18:48	16:55 15:03-15:28/25	16:39
19	05:51	06:37	07:25	08:14	08:08 16:02-16:16/14	08:45 15:07-15:45/38
	21:51	21:01	19:53	18:46	16:53 15:01-15:28/27	16:39
20	05:52	06:38	07:27	08:16	08:09 16:05-16:14/9	08:46 15:07-15:46/39
	21:50	20:59	19:50	18:44	16:52 15:01-15:30/29	16:39
21	05:54	06:40	07:29	08:18	08:11 15:00-15:31/31	08:47 15:07-15:45/38
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 17:03-17:16/13	08:12 15:00-15:32/32	08:47 15:08-15:46/38
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 17:00-17:19/19	08:14 14:59-15:32/33	08:48 15:08-15:47/39
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 18:59-19:04/5	08:23 16:57-17:21/24	08:16 14:59-15:33/34	08:48 15:10-15:48/38
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:56-19:06/10	07:24 15:56-16:22/26	08:17 14:59-15:34/35	08:48 15:10-15:48/38
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:54-19:07/13	07:26 15:54-16:24/30	08:19 14:58-15:34/36	08:49 15:10-15:48/38
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:53-19:08/15	07:28 15:52-16:24/32	08:20 14:59-15:35/36	08:49 15:10-15:48/38
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:52-19:05/13	07:30 15:51-16:25/34	08:22 14:59-15:36/37	08:49 15:10-15:49/39
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:50-19:56/6	07:41 18:52-19:03/11	07:31 15:51-16:25/34	08:23 14:59-15:36/37	08:49 15:11-15:49/38
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:48-19:59/11	07:43 18:51-19:00/9	07:33 15:50-16:26/36	08:25 14:59-15:37/38	08:50 15:11-15:50/39
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:45-19:59/14		07:35 15:50-16:27/37		08:50 15:12-15:50/38
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	215	296	1196	1192

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:36-15:57/21	08:24	07:32 17:51-17:59/8	07:23	06:20 20:36-20:38/2	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 15:37-15:57/20	08:23	07:30 17:52-18:01/9	07:21	06:18 20:35-20:40/5	05:36
	16:49	17:36	18:27	20:19	21:08	21:52
3	08:49 15:38-15:58/20	08:21	07:28 17:53-18:01/8	07:19	06:16 20:34-20:41/7	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49 15:38-15:57/19	08:19	07:26	07:17	06:15 20:34-20:43/9	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 15:40-15:58/18	08:18	07:24	07:14	06:13 20:34-20:44/10	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 16:18-16:20/2	08:16	07:21	07:12	06:11 20:34-20:45/11	05:33
	16:54 15:40-15:57/17	17:44	18:33	20:25	21:14	21:56
7	08:48 16:18-16:22/4	08:15	07:19	07:10	06:09 20:34-20:47/13	05:32
	16:55 15:41-15:58/17	17:45	18:35	20:27	21:16	21:57
8	08:48 16:17-16:23/6	08:13	07:17	07:08	06:08 20:34-20:48/14	05:32
	16:56 15:42-15:57/15	17:47	18:37	20:29	21:18	21:57
9	08:48 16:17-16:25/8	08:11	07:15	07:06	06:06 20:35-20:49/14	05:31
	16:58 15:44-15:57/13	17:49	18:39	20:30	21:19	21:58
10	08:47 16:16-16:26/10	08:09	07:13	07:03	06:04 20:36-20:48/12	05:31
	16:59 15:45-15:56/11	17:51	18:40	20:32	21:21	21:59
11	08:47 16:16-16:27/11	08:08	07:11	07:01	06:03 20:38-20:47/9	05:31
	17:00 15:47-15:55/8	17:53	18:42	20:34	21:22	22:00
12	08:46 16:16-16:29/13	08:06	07:08 18:18-18:19/1	06:59	06:01 20:53-20:54/1	05:30
	17:02 15:51-15:53/2	17:55	18:44	20:35	21:24 20:39-20:45/6	22:00
13	08:45 16:16-16:31/15	08:04	07:06 18:16-18:20/4	06:57	05:59 20:54-20:56/2	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45 16:16-16:32/16	08:02	07:04 18:15-18:22/7	06:55	05:58 20:55-20:57/2	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 16:16-16:34/18	08:00	07:02 18:14-18:24/10	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:16-16:35/19	07:58	06:59 18:14-18:26/12	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:16-16:37/21	07:57	06:57 18:14-18:27/13	06:48	05:54	05:29
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:16-16:39/23	07:55	06:55 18:14-18:28/14	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:16-16:39/23	07:53	06:53 18:16-18:27/11	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 16:17-16:40/23	07:51	06:50 18:18-18:25/7	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:16-16:40/24	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:17-16:40/23	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 16:17-16:41/24	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:18-16:41/23	07:43	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:50-16:51/1	07:41	06:39	06:32	05:43	05:31
	17:22 16:18-16:40/22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:51-16:54/3	07:39 17:52-17:54/2	06:37	06:30	05:42	05:31
	17:24 16:19-16:40/21	18:20	19:07	20:58	21:43	22:05
27	08:31 16:50-16:55/5	07:36 17:52-17:56/4	06:35	06:28	05:41	05:32
	17:26 16:20-16:39/19	18:21	19:09	21:00	21:45	22:05
28	08:30 16:51-16:57/6	07:34 17:51-17:57/6	06:32	06:26	05:40	05:32
	17:28 16:21-16:39/18	18:23	19:10	21:01	21:46	22:05
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33
	17:29 16:22-16:38/16		20:12	21:03	21:47	22:05
30	08:27 16:53-17:01/8		07:28	06:22	05:38	05:33
	17:31 16:25-16:37/12		20:14	21:05	21:48	22:05
31	08:26 16:55-17:01/6		07:26		05:37	
	17:33 16:27-16:35/8		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	639	12	104	0	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 20:49-20:56/7	06:57	07:44 18:56-18:58/2	07:37	08:26 15:58-16:09/11
	22:04	21:34	20:33	19:25	17:21	16:42 15:29-15:37/8
2	05:34	06:11 20:48-20:58/10	06:59	07:46	07:38	08:27 15:59-16:09/10
	22:04	21:32	20:31	19:23	17:19	16:41 15:29-15:39/10
3	05:35	06:12 20:46-20:59/13	07:00	07:48	07:40	08:29 16:00-16:08/8
	22:04	21:30	20:29	19:21	17:17	16:41 15:27-15:40/13
4	05:36	06:14 20:45-20:59/14	07:02	07:49	07:42	08:30 16:02-16:08/6
	22:03	21:29	20:27	19:19	17:16	16:40 15:27-15:42/15
5	05:37	06:15 20:45-20:58/13	07:03	07:51	07:44	08:31 16:03-16:07/4
	22:03	21:27	20:24	19:16	17:14	16:40 15:27-15:43/16
6	05:37	06:17 20:44-20:56/12	07:05	07:53	07:45	08:33 16:04-16:06/2
	22:02	21:25	20:22	19:14	17:12	16:39 15:26-15:43/17
7	05:38	06:18 20:44-20:55/11	07:07	07:54	07:47	08:34 15:27-15:45/18
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20 20:43-20:53/10	07:08	07:56	07:49	08:35 15:27-15:45/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 20:43-20:51/8	07:10	07:58	07:51	08:36 15:26-15:46/20
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23 20:44-20:50/6	07:11	07:59 18:29-18:34/5	07:52	08:37 15:26-15:46/20
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24 20:44-20:48/4	07:13	08:01 18:26-18:36/10	07:54 16:26-16:33/7	08:38 15:26-15:47/21
	21:59	21:16	20:11	19:03	17:04 15:58-16:07/9	16:38
12	05:43	06:26 20:45-20:46/1	07:14	08:02 18:24-18:33/9	07:56 16:24-16:32/8	08:39 15:27-15:48/21
	21:58	21:14	20:09	19:01	17:03 15:55-16:08/13	16:38
13	05:44	06:27	07:16	08:04 18:24-18:31/7	07:57 16:24-16:31/7	08:40 15:27-15:48/21
	21:57	21:13	20:06	18:59	17:01 15:54-16:10/16	16:38
14	05:45	06:29	07:18	08:06 18:24-18:29/5	07:59 16:23-16:29/6	08:41 15:27-15:49/22
	21:57	21:11	20:04	18:57	17:00 15:53-16:11/18	16:38
15	05:46	06:30	07:19	08:07 18:24-18:27/3	08:01 16:23-16:28/5	08:42 15:28-15:50/22
	21:56	21:09	20:02	18:55	16:59 15:53-16:12/19	16:38
16	05:48	06:32	07:21	08:09	08:03 16:24-16:27/3	08:43 15:28-15:50/22
	21:55	21:07	20:00	18:53	16:57 15:52-16:13/21	16:38
17	05:49	06:34	07:22	08:11	08:04 16:24-16:25/1	08:44 15:29-15:51/22
	21:54	21:05	19:57	18:50	16:56 15:52-16:14/22	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45 15:29-15:51/22
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:08 15:51-16:15/24	08:45 15:29-15:52/23
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09 15:52-16:15/23	08:46 15:30-15:53/23
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18	08:11 15:52-16:16/24	08:47 15:30-15:53/23
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19	08:12 15:53-16:16/23	08:47 15:31-15:53/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 19:02-19:08/6	08:21	08:14 15:52-16:16/24	08:48 15:31-15:54/23
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:00-19:10/10	08:23	08:16 15:53-16:16/23	08:48 15:32-15:55/23
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:57-19:11/14	07:24	08:17 15:54-16:15/21	08:48 15:32-15:55/23
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:57-19:10/13	07:26	08:19 15:54-16:14/20	08:49 15:33-15:55/22
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:56-19:08/12	07:28	08:20 15:55-16:13/18	08:49 15:33-15:55/22
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:55-19:05/10	07:30	08:22 15:56-16:12/16	08:49 15:34-15:55/21
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 21:07-21:08/1	06:52	07:41 18:55-19:03/8	07:31	08:23 15:56-16:11/15	08:49 15:34-15:56/22
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06 21:05-21:07/2	06:54	07:43 18:55-19:00/5	07:33	08:25 15:57-16:10/13	08:50 15:35-15:56/21
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 21:05-21:06/1	06:56		07:35		08:50 15:35-15:56/21
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	4	109	78	41	422	658

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
9	08:48 16:58	08:11 16:40-16:54/14 17:49 15:49-16:35/46	07:15 18:39	07:06 20:01-20:05/4 20:30	06:06 18:38-19:58/80 20:39-20:50/11 21:19 07:09-07:43/34	05:31 18:47-19:58/71 21:58 20:59-21:22/23
10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
27	08:31 15:46-16:55/69 17:26	07:36 18:21	06:35 19:09	06:28 18:43-19:53/70 21:00 07:07-07:47/40	05:41 18:41-19:58/77 21:45 20:59-21:13/14	05:32 18:53-20:01/68 22:05 21:04-21:26/22
28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:57/71 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:58/72 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	978	1031	0	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69	06:09 18:48-20:08/80 20:50-21:04/14	06:57 20:01-20:07/6	07:45	07:37 16:11-16:22/11	08:26 15:38-15:53/15
	22:04 21:05-21:27/22	21:34 07:20-07:50/30	20:33	19:25	17:21 15:19-16:04/45	16:42
2	05:35 18:52-20:02/70	06:11 18:48-20:09/81 20:50-21:03/13	06:59 20:00-20:04/4	07:46	07:38 16:09-16:24/15	08:27 15:41-15:52/11
	22:04 21:04-21:27/23	21:32 07:20-07:52/32	20:31	19:23	17:19 15:18-16:05/47	16:42
3	05:35 18:53-20:03/70	06:12 18:48-20:08/80 20:49-21:01/12	07:00 19:59-20:03/4	07:48	07:40 16:08-16:26/18	08:29
	22:04 21:05-21:27/22	21:30 07:19-07:52/33	20:29	19:21	17:18 15:18-16:05/47	16:41
4	05:36 18:53-20:03/70	06:14 18:47-20:07/80 20:49-20:59/10	07:02 19:58-20:00/2	07:49	07:42 15:17-16:26/69	08:30
	22:03 21:05-21:28/23	21:29 07:19-07:54/35	20:27	19:19	17:16	16:40
5	05:37 18:53-20:04/71	06:15 18:48-20:08/80 20:49-20:58/9	07:03	07:51	07:44 15:17-16:27/70	08:31
	22:03 21:06-21:28/22	21:27 07:18-07:54/36	20:24	19:17	17:14	16:40
6	05:38 18:52-20:04/72	06:17 18:48-20:07/79 20:49-20:56/7	07:05	07:53	07:45 15:17-16:28/71	08:33
	22:02 21:05-21:28/23	21:25 07:17-07:54/37	20:22	19:14	17:12	16:40
7	05:38 18:52-20:04/72	06:18 18:48-20:07/79 20:50-20:55/5	07:07	07:54	07:47 15:17-16:28/71	08:34
	22:02 21:05-21:28/23	21:24 07:17-07:55/38	20:20	19:12	17:11	16:39
8	05:39 18:52-20:05/73	06:20 18:48-20:06/78 20:50-20:53/3	07:08	07:56	07:49 15:17-16:29/72	08:35
	22:01 21:06-21:28/22	21:22 07:16-07:55/39	20:18	19:10	17:09	16:39
9	05:40 18:52-20:05/73	06:21 18:49-20:06/77	07:10	07:58	07:51 15:17-16:29/72	08:36
	22:00 21:06-21:28/22	21:20 07:16-07:56/40	20:15	19:08	17:08	16:39
10	05:41 18:52-20:05/73	06:23 18:48-20:05/77	07:11	07:59	07:52 15:17-16:30/73	08:37
	22:00 21:06-21:28/22	21:18 07:15-07:55/40	20:13	19:05	17:06	16:38
11	05:42 18:52-20:06/74	06:24 18:49-20:05/76	07:13	08:01	07:54 15:18-16:30/72	08:38
	21:59 21:07-21:27/20	21:16 07:16-07:56/40	20:11	19:03	17:04	16:38
12	05:43 18:52-20:06/74	06:26 18:49-20:04/75	07:14	08:02	07:56 15:17-16:29/72	08:39
	21:58 21:07-21:27/20	21:14 07:15-07:55/40	20:09	19:01	17:03	16:38
13	05:44 18:52-20:06/74	06:27 18:49-20:03/74	07:16	08:04	07:57 15:18-16:29/71	08:40
	21:57 21:07-21:26/19	21:13 07:14-07:55/41	20:06	18:59	17:01	16:38
14	05:45 18:51-20:07/76	06:29 18:50-20:02/72	07:18	08:06	07:59 15:18-16:29/71	08:41
	21:56 21:08-21:25/17	21:11 07:15-07:55/40	20:04	18:57	17:00	16:38
15	05:47 18:51-20:07/76	06:31 18:50-20:01/71	07:19	08:07	08:01 15:19-16:28/69	08:42
	21:56 21:08-21:24/16	21:09 07:14-07:54/40	20:02	18:55	16:59	16:38
16	05:48 18:51-20:07/76	06:32 18:51-20:00/69	07:21	08:09	08:03 16:06-16:27/21	08:43
	21:55 21:09-21:23/14	21:07 07:15-07:54/39	20:00	18:53	16:57 15:20-16:05/45	16:38
17	05:49 18:51-20:07/76	06:34 18:51-19:59/68	07:22	08:11 18:15-18:22/7	08:04 16:07-16:25/18	08:44
	21:54 21:09-21:22/13	21:05 07:15-07:53/38	19:57	18:50	16:56 15:21-16:04/43	16:39
18	05:50 18:50-20:07/77	06:35 18:52-19:58/66	07:24	08:13 18:14-18:20/6	08:06 16:08-16:24/16	08:45
	21:53 21:10-21:21/11	21:03 07:16-07:53/37	19:55	18:48	16:55 15:22-16:04/42	16:39
19	05:51 18:50-20:07/77	06:37 18:53-19:56/63	07:25	08:14 18:13-18:18/5	08:08 16:09-16:22/13	08:45
	21:51 21:10-21:20/10	21:01 07:16-07:52/36	19:53	18:46	16:54 15:22-16:03/41	16:39
20	05:53 18:50-20:09/79	06:38 18:54-19:55/61	07:27	08:16 18:13-18:17/4	08:09 16:10-16:21/11	08:46
	21:50 21:12-21:20/8	20:59 07:17-07:52/35	19:50	18:44	16:52 15:23-16:03/40	16:39
21	05:54 18:50-20:08/78	06:40 18:54-19:53/59	07:29	08:18 18:12-18:14/2	08:11 16:12-16:20/8	08:47
	21:49 21:13-21:18/5	20:57 07:17-07:50/33	19:48	18:42 16:40-16:46/6	16:51 15:24-16:02/38	16:40
22	05:55 18:50-20:08/78	06:41 18:56-19:52/56	07:30	08:19 16:34-16:51/17	08:12 16:15-16:19/4	08:47
	21:48 21:15-21:17/2	20:55 07:18-07:49/31	19:46	18:40	16:50 15:25-16:02/37	16:40
23	05:56 18:49-20:08/79	06:43 18:57-19:49/52	07:32	08:21 16:31-16:54/23	08:14 15:26-16:01/35	08:48
	21:47	20:53 07:19-07:47/28	19:44	18:38	16:49	16:41
24	05:58 18:50-20:09/79	06:45 18:59-19:48/49	07:33	08:23 16:29-16:57/28	08:16 15:27-16:00/33	08:48
	21:45	20:50 07:21-07:46/25	19:41	18:36	16:48	16:41
25	05:59 18:49-20:09/80	06:46 19:00-19:45/45	07:35	07:24 15:27-15:58/31	08:17 15:28-16:00/32	08:48
	21:44 07:34-07:37/3	20:48 07:22-07:43/21	19:39	17:34	16:47	16:42
26	06:01 18:49-20:09/80	06:48 19:02-19:43/41	07:37	07:26 15:25-16:00/35	08:19 15:29-15:58/29	08:49
	21:43 07:29-07:41/12	20:46 07:25-07:41/16	19:37	17:32	16:46	16:43
27	06:02 18:48-20:08/80 20:55-20:59/4	06:49 19:04-19:40/36	07:38	07:28 15:23-16:00/37	08:20 15:31-15:58/27	08:49
	21:41 07:28-07:44/16	20:44 07:28-07:36/8	19:35	17:30	16:45	16:44
28	06:03 18:49-20:09/80 20:54-21:02/8	06:51 19:07-19:37/30	07:40	07:30 15:22-16:01/39	08:22 15:33-15:57/24	08:49
	21:40 07:26-07:46/20	20:42	19:32	17:28	16:44	16:44
29	06:05 18:48-20:09/81 20:52-21:03/11	06:52 19:10-19:32/22	07:41	07:31 15:21-16:02/41	08:23 15:34-15:56/22	08:49
	21:38 07:24-07:47/23	20:40	19:30	17:27	16:44	16:45
30	06:06 18:48-20:08/80 20:51-21:03/12	06:54 19:19-19:24/5	07:43	07:33 15:20-16:03/43	08:25 15:36-15:55/19	08:50
	21:37 07:23-07:49/26	20:38	19:28	17:25	16:43	16:46
31	06:08 18:48-20:09/81 20:50-21:04/14	06:56 20:04-20:07/3		07:35 15:19-16:04/45		08:50
	21:35 07:22-07:50/28	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	16	369	1634	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 14:50-15:34/44	08:24 08:58-09:29/31	07:32	07:23 19:36-19:52/16	06:20 06:48-07:00/12	05:37 06:40-07:07/27
	16:48 12:37-13:24/47	17:35 17:03-17:05/2	18:25	20:17	21:06	21:51
2	08:50 14:51-15:35/44	08:23 08:57-09:29/32	07:30	07:21 19:34-19:53/19	06:18 06:45-07:03/18	05:36 06:41-07:07/26
	16:49 12:38-13:24/46	17:37 17:04-17:07/3	18:27	20:19	21:08	21:52
3	08:49 14:52-15:35/43	08:21 08:56-09:29/33	07:28	07:19 19:33-19:55/22	06:17 06:44-07:05/21	05:35 06:41-07:06/25
	16:50 12:39-13:25/46	17:38 17:06-17:07/1	18:28	20:20	21:10	21:53
4	08:49 14:52-15:35/43	08:19 08:57-09:31/34	07:26	07:17 19:33-19:57/24	06:15 06:42-07:06/24	05:34 06:43-07:07/24
	16:51 12:39-13:24/45	17:40	18:30	20:22	21:11	21:54
5	08:49 14:53-15:36/43	08:18 08:56-09:31/35	07:24	07:14 19:33-19:58/25	06:13 06:40-07:07/27	05:34 06:43-07:06/23
	16:53 12:40-13:24/44	17:42	18:32	20:24	21:13	21:55
6	08:49 14:53-15:35/42	08:16 08:56-09:31/35	07:22	07:12 19:32-19:56/24	06:11 06:40-07:08/28	05:33 06:44-07:06/22
	16:54 12:41-13:24/43	17:44	18:33	20:25	21:14	21:56
7	08:48 14:54-15:36/42	08:15 08:55-09:31/36	07:19	07:10 19:32-19:55/23	06:09 06:38-07:09/31	05:32 06:44-07:05/21
	16:55 12:42-13:24/42	17:46	18:35	20:27	21:16	21:56
8	08:48 14:54-15:36/42	08:13 08:56-09:32/36	07:17	07:08 19:32-19:54/22	06:08 06:37-07:09/32	05:32 06:45-07:05/20
	16:56 12:43-13:23/40	17:47	18:37	20:29	21:17	21:57
9	08:48 14:55-15:37/42	08:11 08:56-09:32/36	07:15	07:06 19:33-19:53/20	06:06 06:37-07:10/33	05:32 06:46-07:04/18
	16:58 12:45-13:24/39	17:49	18:39	20:30	21:19	21:58
10	08:47 14:55-15:37/42	08:09 08:56-09:31/35	07:13	07:03 19:34-19:52/18	06:04 06:36-07:10/34	05:31 06:47-07:04/17
	16:59 12:46-13:23/37	17:51	18:40	20:32	21:21	21:59
11	08:46 14:56-15:37/41	08:08 08:56-09:31/35	07:11	07:01 19:35-19:51/16	06:03 06:36-07:11/35	05:31 06:48-07:04/16
	17:00 12:47-13:22/35	17:53	18:42	20:34	21:22	22:00
12	08:46 14:57-15:37/40	08:06 08:57-09:31/34	07:08	06:59 19:36-19:48/12	06:01 06:35-07:11/36	05:30 06:49-07:03/14
	17:02 12:49-13:22/33	17:55	18:44	20:35	21:24	22:00
13	08:45 14:58-15:37/39	08:04 08:57-09:30/33	07:06	06:57 19:40-19:44/4	06:00 06:35-07:11/36	05:30 06:49-07:02/13
	17:03 12:51-13:21/30	17:56	18:45	20:37	21:25	22:01
14	08:44 14:58-15:37/39	08:02 08:58-09:29/31	07:04	06:55	05:58 06:34-07:11/37	05:30 06:50-07:02/12
	17:05 12:53-13:20/27	17:58	18:47	20:38	21:27	22:02
15	08:44 14:59-15:37/38	08:00 08:58-09:28/30	07:02	06:53	05:57 06:34-07:11/37	05:30 06:50-07:02/12
	17:06 12:55-13:18/23	18:00	18:49	20:40	21:28	22:02
16	08:43 15:00-15:37/37	07:58 08:59-09:27/28	06:59 18:25-18:26/1	06:50	05:55 06:35-07:12/37	05:30 06:51-07:01/10
	17:08 12:58-13:15/17	18:02	18:51	20:42	21:30	22:03
17	08:42 15:01-15:37/36	07:57 09:00-09:26/26	06:57 18:24-18:27/3	06:48	05:54 06:34-07:11/37	05:30 06:52-07:01/9
	17:09 13:07-13:10/3	18:04	18:52	20:43	21:31	22:03
18	08:41 15:02-15:37/35	07:55 09:02-09:24/22	06:55 18:25-18:29/4	06:46	05:52 06:34-07:11/37	05:30 06:53-07:01/8
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 15:03-15:36/33	07:53 09:04-09:21/17	06:53 18:26-18:31/5	06:44	05:51 06:35-07:11/36	05:30 06:53-07:00/7
	17:13	18:07	18:56	20:47	21:34	22:04
20	08:39 15:05-15:36/31	07:51 09:07-09:18/11	06:50	06:42	05:49 06:35-07:12/37	05:30 06:53-07:00/7
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 15:05-15:35/30	07:49	06:48	06:40	05:48 06:35-07:12/37	05:30 06:54-07:01/7
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 15:07-15:34/27	07:47	06:46	06:38	05:47 06:35-07:10/35	05:30 06:54-07:01/7
	17:17	18:13	19:01	20:52	21:38	22:05
23	08:36 15:09-15:33/24	07:45	06:44	06:36	05:46 06:35-07:10/35	05:30 06:54-07:01/7
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 15:12-15:32/20	07:43	06:41	06:34	05:45 06:36-07:10/34	05:31 06:54-07:02/8
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 15:14-15:30/16	07:41	06:39	06:32	05:43 06:36-07:10/34	05:31 06:54-07:03/9
	17:23 09:06-09:17/11	18:18	19:06	20:57	21:42	22:05
26	08:32 15:19-15:27/8	07:39	06:37	06:30	05:42 06:36-07:09/33	05:31 06:54-07:03/9
	17:24 09:04-09:20/16	18:20	19:07	20:58	21:43	22:05
27	08:31 09:02-09:22/20	07:36	06:35	06:28	05:41 06:37-07:09/32	05:32 06:54-07:04/10
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 09:01-09:24/23	07:34	06:32	06:26	05:40 06:38-07:10/32	05:32 06:53-07:05/12
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:00-09:25/25		07:30 19:42-19:47/5	06:24	05:39 06:39-07:09/30	05:33 06:53-07:06/13
	17:29		20:12	21:03	21:47	22:05
30	08:27 08:59-09:27/28		07:28 19:39-19:49/10	06:22	05:38 06:39-07:08/29	05:33 06:52-07:06/14
	17:31		20:14	21:05	21:48	22:04
31	08:26 08:58-09:27/29		07:26 19:37-19:50/13		05:37 06:39-07:08/29	
	17:33 17:01-17:03/2		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	616	41	245	985	427

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:52-07:07/15	06:09 06:45-07:21/36	06:57 19:34-19:50/16	07:45	07:37 08:26-09:01/35	08:26 14:38-15:19/41
	22:04	21:34	20:33	19:25	17:21	16:42 12:29-13:04/35
2	05:35 06:51-07:08/17	06:11 06:46-07:21/35	06:59 19:32-19:50/18	07:46	07:38 08:26-09:01/35	08:27 14:38-15:20/42
	22:04	21:32	20:31	19:23	17:19	16:42 12:29-13:06/37
3	05:35 06:51-07:09/18	06:12 06:46-07:20/34	07:00 19:31-19:52/21	07:48	07:40 08:26-09:02/36	08:29 14:38-15:20/42
	22:04	21:30	20:29	19:21	17:18	16:41 12:28-13:07/39
4	05:36 06:51-07:10/19	06:14 06:47-07:20/33	07:02 19:29-19:51/22	07:49	07:42 08:25-09:01/36	08:30 14:39-15:21/42
	22:03	21:29	20:27	19:19	17:16	16:40 12:28-13:08/40
5	05:37 06:51-07:11/20	06:15 06:48-07:19/31	07:03 19:29-19:52/23	07:51	07:44 08:25-09:01/36	08:31 14:39-15:21/42
	22:03	21:27	20:24	19:17	17:14	16:40 12:27-13:09/42
6	05:38 06:50-07:11/21	06:17 06:48-07:18/30	07:05 19:28-19:52/24	07:53	07:45 08:26-09:01/35	08:33 14:39-15:21/42
	22:02	21:25	20:22	19:14	17:12	16:40 12:27-13:10/43
7	05:38 06:49-07:12/23	06:18 06:49-07:18/29	07:07 19:28-19:53/25	07:54	07:47 08:26-09:00/34	08:34 14:40-15:23/43
	22:02	21:24	20:20	19:12	17:11	16:39 12:27-13:11/44
8	05:39 06:49-07:13/24	06:20 06:50-07:16/26	07:08 19:27-19:51/24	07:56	07:49 08:27-09:00/33	08:35 14:40-15:23/43
	22:01	21:22	20:18	19:10	17:09 16:36-16:39/3	16:39 12:27-13:12/45
9	05:40 06:49-07:14/25	06:21 06:52-07:15/23	07:10 19:28-19:49/21	07:58	07:50 08:28-09:00/32	08:36 14:40-15:23/43
	22:00	21:20	20:15	19:08	17:08 16:34-16:38/4	16:39 12:27-13:13/46
10	05:41 06:49-07:14/25	06:23 06:53-07:13/20	07:11 19:27-19:46/19	07:59	07:52 08:29-08:59/30	08:37 14:40-15:24/44
	22:00	21:18	20:13	19:05	17:06 16:33-16:36/3	16:38 12:27-13:13/46
11	05:42 06:48-07:15/27	06:24 06:55-07:12/17	07:13 19:28-19:45/17	08:01	07:54 08:30-08:59/29	08:38 14:40-15:24/44
	21:59	21:16	20:11	19:03	17:04 16:33-16:35/2	16:38 12:27-13:14/47
12	05:43 06:48-07:16/28	06:26 06:58-07:08/10	07:14 19:28-19:42/14	08:02	07:56 08:31-08:58/27	08:39 14:41-15:24/43
	21:58	21:14	20:09	19:01	17:03	16:38 12:27-13:15/48
13	05:44 06:48-07:17/29	06:27	07:16 19:30-19:40/10	08:04	07:57 08:32-08:57/25	08:40 14:41-15:25/44
	21:57	21:13	20:06	18:59	17:01	16:38 12:27-13:16/49
14	05:45 06:47-07:17/30	06:29	07:18 19:32-19:37/5	08:06	07:59 08:33-08:56/23	08:41 14:42-15:25/43
	21:56	21:11	20:04	18:57	17:00	16:38 12:27-13:16/49
15	05:47 06:47-07:18/31	06:31	07:19	08:07	08:01 08:35-08:55/20	08:42 14:42-15:26/44
	21:56	21:09	20:02	18:55	16:59	16:38 12:28-13:17/49
16	05:48 06:47-07:18/31	06:32	07:21	08:09	08:02 14:52-15:00/8	08:43 14:43-15:27/44
	21:55	21:07	20:00	18:53	16:57 08:37-08:53/16	16:38 12:28-13:18/50
17	05:49 06:46-07:19/33	06:34	07:22	08:11	08:04 14:48-15:04/16	08:44 14:43-15:27/44
	21:54	21:05	19:57	18:50	16:56 08:40-08:51/11	16:39 12:29-13:19/50
18	05:50 06:46-07:19/33	06:35	07:24	08:12	08:06 14:46-15:06/20	08:45 14:43-15:27/44
	21:52	21:03	19:55	18:48	16:55	16:39 12:28-13:18/50
19	05:51 06:46-07:20/34	06:37	07:25	08:14	08:07 14:43-15:07/24	08:45 14:44-15:28/44
	21:51	21:01	19:53	18:46	16:54	16:39 12:29-13:19/50
20	05:53 06:46-07:21/35	06:38	07:27	08:16	08:09 14:42-15:09/27	08:46 14:45-15:29/44
	21:50	20:59	19:50	18:44	16:52	16:40 12:30-13:20/50
21	05:54 06:46-07:21/35	06:40	07:29	08:18	08:11 14:41-15:11/30	08:47 14:45-15:29/44
	21:49	20:57	19:48	18:42	16:51	16:40 12:30-13:20/50
22	05:55 06:45-07:21/36	06:41	07:30	08:19 09:36-09:50/14	08:12 14:41-15:12/31	08:47 14:46-15:30/44
	21:48	20:55	19:46	18:40	16:50	16:40 12:31-13:21/50
23	05:57 06:45-07:21/36	06:43	07:32	08:21 09:34-09:52/18	08:14 14:39-15:12/33	08:48 14:46-15:30/44
	21:47	20:53	19:44	18:38	16:49	16:41 12:31-13:21/50
24	05:58 06:45-07:22/37	06:45	07:33 19:10-19:15/5	08:23 09:32-09:55/23	08:16 14:39-15:14/35	08:48 14:46-15:30/44
	21:45	20:50	19:41	18:36	16:48	16:41 12:31-13:21/50
25	05:59 06:45-07:22/37	06:46	07:35 19:08-19:12/4	07:24 08:31-08:56/25	08:17 14:39-15:15/36	08:48 14:47-15:31/44
	21:44	20:48	19:39	17:34	16:47 12:46-12:47/1	16:42 12:32-13:22/50
26	06:01 06:45-07:22/37	06:48	07:37 19:07-19:10/3	07:26 08:29-08:58/29	08:19 14:38-15:15/37	08:49 14:47-15:31/44
	21:43	20:46	19:37	17:32	16:46 12:36-12:53/17	16:43 12:33-13:23/50
27	06:02 06:45-07:23/38	06:49	07:38 19:07-19:08/1	07:28 08:28-08:58/30	08:20 14:38-15:16/38	08:49 14:48-15:32/44
	21:41	20:44	19:35	17:30	16:45 12:34-12:57/23	16:44 12:33-13:23/50
28	06:03 06:45-07:22/37	06:51	07:40	07:30 08:27-08:59/32	08:22 14:38-15:17/39	08:49 14:48-15:32/44
	21:40	20:42	19:32	17:28	16:44 12:33-12:59/26	16:44 12:34-13:23/49
29	06:05 06:45-07:22/37	06:52	07:41	07:31 08:26-09:00/34	08:23 14:38-15:17/39	08:49 14:48-15:32/44
	21:38	20:40	19:30	17:27	16:44 12:31-13:01/30	16:45 12:34-13:23/49
30	06:06 06:46-07:22/36	06:54 19:41-19:45/4	07:43	07:33 08:26-09:00/34	08:25 14:38-15:19/41	08:50 14:49-15:33/44
	21:37	20:38	19:28	17:25	16:43 12:30-13:03/33	16:46 12:35-13:23/48
31	06:08 06:46-07:22/36	06:56 19:36-19:48/12		07:35 08:26-09:01/35		08:50 14:49-15:33/44
	21:35	20:35		17:23		16:47 12:36-13:24/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	920	340	272	274	1089	2799

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 11:08-12:05/57	08:24	07:32 07:55-08:07/12	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 11:09-12:06/57	08:22	07:30 07:53-08:09/16	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 11:10-12:06/56	08:21	07:28 07:51-08:10/19	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 11:10-12:06/56	08:19	07:26 07:49-08:11/22	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 11:11-12:06/55	08:18	07:24 07:46-08:10/24	07:14	06:13	05:33
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 11:11-12:06/55	08:16	07:21 07:44-08:11/27	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 11:12-12:06/54	08:15	07:19 07:42-08:11/29	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 11:13-12:05/52	08:13	07:17 07:40-08:11/31	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 11:14-12:06/52	08:11	07:15 07:38-08:12/34	07:05	06:06	05:31
	16:57	17:49	18:38	20:30	21:19	21:58
10	08:47 11:15-12:05/50	08:09	07:13 07:35-08:10/35	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 11:16-12:05/49	08:08	07:10 07:33-08:10/37	07:01	06:03 06:28-06:29/1	05:30 06:00-06:01/1
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 11:18-12:05/47	08:06	07:08 07:31-08:10/39	06:59	06:01 06:26-06:29/3	05:30 05:59-06:00/1
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 11:19-12:04/45	08:04	07:06 07:29-08:09/40	06:57	05:59 06:25-06:29/4	05:30 05:59-06:00/1
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 11:20-12:04/44	08:02	07:04 07:26-08:07/41	06:55	05:58 06:23-06:28/5	05:30 05:59-06:00/1
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:21-12:03/42	08:00	07:02 07:24-08:06/42	06:52	05:56 06:22-06:28/6	05:30 05:59-06:00/1
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:22-12:02/40	07:58	06:59 07:22-08:04/42	06:50	05:55 06:21-06:28/7	05:29 05:59-06:00/1
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:24-12:01/37	07:56	06:57 07:19-08:01/42	06:48	05:53 06:19-06:27/8	05:29 05:59-06:00/1
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:26-12:00/34	07:55	06:55 07:17-07:59/42	06:46	05:52 06:18-06:26/8	05:29 05:59-06:00/1
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:28-11:58/30	07:53	06:53 07:17-07:54/37	06:44	05:51 06:17-06:25/8	05:29 05:59-06:00/1
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:31-11:56/25	07:51	06:50 07:16-07:53/37	06:42	05:49 06:19-06:24/5	05:29 05:59-06:00/1
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:33-11:52/19	07:49	06:48 07:16-07:52/36	06:40	05:48	05:30 06:00-06:01/1
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 11:39-11:47/8	07:47	06:46 07:16-07:52/36	06:38	05:47	05:30 06:00-06:01/1
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:43 07:16-07:51/35	06:36	05:45	05:30 06:00-06:01/1
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41 07:16-07:51/35	06:34	05:44	05:30 06:00-06:01/1
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:40	06:39 07:16-07:49/33	06:32	05:43	05:31 06:01-06:02/1
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38	06:37 07:17-07:48/31	06:30	05:42	05:31 06:01-06:02/1
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:03/3	06:34 07:18-07:47/29	06:28	05:41	05:31 06:02-06:03/1
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:05/8	06:32 07:18-07:44/26	06:26	05:40	05:32 06:02-06:03/1
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 08:20-08:42/22	06:24	05:39	05:32 06:03-06:04/1
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 08:22-08:40/18	06:22	05:38	05:33 06:03-06:04/1
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25 08:25-08:36/11		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	964	11	960	0	55	20

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34	06:04-06:05/1	06:09	06:37-06:39/2	06:57		07:44	08:09-08:48/39	07:36		08:26	10:58-11:47/49
	22:04		21:34		20:33		19:25		17:21		16:42	
2	05:34	06:04-06:05/1	06:10		06:59		07:46	08:11-08:49/38	07:38		08:27	10:58-11:48/50
	22:04		21:32		20:31		19:23		17:19		16:41	
3	05:35		06:12		07:00		07:48	08:12-08:48/36	07:40		08:29	10:57-11:49/52
	22:04		21:30		20:29		19:21		17:17		16:41	
4	05:36		06:13		07:02		07:49	08:14-08:48/34	07:42		08:30	10:58-11:50/52
	22:03		21:29		20:27		19:19		17:16		16:40	
5	05:37		06:15		07:03		07:51	08:16-08:48/32	07:43		08:31	10:58-11:51/53
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:37		06:16		07:05		07:52	08:17-08:47/30	07:45		08:33	10:57-11:52/55
	22:02		21:25		20:22		19:14		17:12		16:39	
7	05:38		06:18		07:06		07:54	08:19-08:47/28	07:47		08:34	10:58-11:53/55
	22:02		21:24		20:20		19:12		17:11		16:39	
8	05:39		06:19		07:08		07:56	08:21-08:47/26	07:49		08:35	10:58-11:54/56
	22:01		21:22		20:18		19:10		17:09		16:39	
9	05:40		06:21		07:10		07:57	08:22-08:45/23	07:50		08:36	10:58-11:54/56
	22:00		21:20		20:15		19:08		17:07		16:38	
10	05:41		06:23		07:11		07:59	08:24-08:44/20	07:52		08:37	10:58-11:55/57
	22:00		21:18		20:13		19:05		17:06		16:38	
11	05:42		06:24		07:13		08:01	08:26-08:43/17	07:54		08:38	10:58-11:55/57
	21:59		21:16		20:11		19:03		17:04		16:38	
12	05:43		06:26		07:14	08:17-08:27/10	08:02	08:28-08:42/14	07:56		08:39	10:58-11:56/58
	21:58		21:14		20:09		19:01		17:03		16:38	
13	05:44		06:27		07:16	08:14-08:31/17	08:04	08:29-08:39/10	07:57		08:40	10:58-11:57/59
	21:57		21:12		20:06		18:59		17:01		16:38	
14	05:45		06:29		07:17	08:10-08:32/22	08:06	08:31-08:37/6	07:59		08:41	10:59-11:57/58
	21:56		21:11		20:04		18:57		17:00		16:38	
15	05:46		06:30		07:19	08:09-08:34/25	08:07		08:01		08:42	10:59-11:58/59
	21:56		21:09		20:02		18:55		16:58		16:38	
16	05:47		06:32		07:21	08:07-08:35/28	08:09		08:02		08:43	10:59-11:59/60
	21:55		21:07		19:59		18:52		16:57		16:38	
17	05:49		06:33		07:22	08:05-08:36/31	08:11		08:04		08:44	11:00-12:00/60
	21:54		21:05		19:57		18:50		16:56		16:38	
18	05:50		06:35		07:24	08:04-08:36/32	08:12		08:06		08:45	11:00-12:00/60
	21:52		21:03		19:55		18:48		16:55		16:39	
19	05:51		06:37		07:25	08:03-08:37/34	08:14		08:07		08:45	11:00-12:00/60
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52		06:38		07:27	08:03-08:38/35	08:16		08:09	11:14-11:22/8	08:46	11:01-12:01/60
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54		06:40		07:28	08:01-08:37/36	08:17		08:11	11:09-11:28/19	08:47	11:01-12:01/60
	21:49		20:57		19:48		18:42		16:51		16:40	
22	05:55		06:41		07:30	08:01-08:38/37	08:19		08:12	11:07-11:32/25	08:47	11:02-12:02/60
	21:48		20:55		19:46		18:40		16:50		16:40	
23	05:56		06:43		07:32	08:00-08:37/37	08:21		08:14	11:04-11:34/30	08:48	11:02-12:02/60
	21:47		20:52		19:43		18:38		16:49		16:41	
24	05:58	06:29-06:35/6	06:44		07:33	08:00-08:37/37	08:23		08:16	11:03-11:37/34	08:48	11:02-12:02/60
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59	06:28-06:36/8	06:46		07:35	07:59-08:41/42	07:24		08:17	11:02-11:39/37	08:48	11:04-12:03/59
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00	06:29-06:37/8	06:48		07:36	08:01-08:43/42	07:26		08:19	11:01-11:40/39	08:49	11:04-12:04/60
	21:43		20:46		19:37		17:32		16:46		16:43	
27	06:02	06:30-06:38/8	06:49		07:38	08:03-08:46/43	07:28		08:20	11:00-11:42/42	08:49	11:04-12:04/60
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:32-06:39/7	06:51		07:40	08:04-08:46/42	07:30		08:22	11:00-11:44/44	08:49	11:05-12:04/59
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:33-06:39/6	06:52		07:41	08:06-08:47/41	07:31		08:23	10:59-11:44/45	08:49	11:05-12:04/59
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:34-06:39/5	06:54		07:43	08:07-08:47/40	07:33		08:25	10:59-11:46/47	08:50	11:06-12:05/59
	21:37		20:38		19:28		17:25		16:43		16:46	
31	06:07	06:36-06:39/3	06:55				07:35				08:50	11:07-12:05/58
	21:35		20:35				17:23				16:47	
Potential sun hours	498		452		380		333		269		248	
Sum of minutes with flicker		53		2		631		353		370		1780

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT19 - VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 11:31-12:19/48	08:24	07:32 08:22-08:39/17	07:23 07:46-08:10/24 18:12-18:47/35	06:20	05:36 06:14-06:46/32
	16:48	17:35	18:25 07:58-08:14/16	20:17 19:33-19:49/16	21:06	21:50
2	08:49 11:31-12:19/48	08:22	07:30 08:24-08:37/13	07:21 07:43-08:09/26 18:14-18:46/32	06:18	05:36 06:14-06:47/33
	16:49	17:36	18:26 07:59-08:13/14	20:19 19:33-19:48/15	21:08	21:52
3	08:49 11:31-12:19/48	08:21	07:28 08:29-08:31/2	07:19 07:43-08:08/25 18:16-18:43/27	06:16	05:35 06:14-06:47/33
	16:50	17:38	18:28 08:00-08:12/12	20:20 19:34-19:47/13	21:09	21:53
4	08:49 11:32-12:19/47	08:19	07:26 17:34-17:39/5	07:17 07:43-08:07/24 18:19-18:41/22	06:15	05:34 06:13-06:46/33
	16:51	17:40	18:30 08:02-08:10/8	20:22 19:36-19:45/9	21:11	21:54
5	08:49 11:34-12:19/45	08:18	07:24 17:27-17:45/18	07:14 07:44-08:06/22	06:13	05:34 06:14-06:47/33
	16:53	17:42	18:32 07:46-07:50/4	20:24 18:23-18:37/14	21:13	21:55
6	08:49 11:34-12:19/45	08:16	07:21 17:23-17:48/25	07:12 07:44-08:03/19	06:11	05:33 06:14-06:47/33
	16:54	17:44	18:33 07:44-07:53/9	20:25	21:14	21:55
7	08:48 11:35-12:19/44	08:14	07:19 17:21-17:51/30	07:10 07:46-08:01/15	06:09	05:32 06:14-06:48/34
	16:55	17:45	18:35 07:42-07:55/13	20:27	21:16	21:56
8	08:48 11:36-12:19/43	08:13	07:17 17:19-17:53/34	07:08	06:08	05:32 06:15-06:48/33
	16:56	17:47	18:37 07:40-07:56/16	20:29	21:17	21:57
9	08:47 11:37-12:19/42	08:11	07:15 17:16-17:53/37	07:05	06:06	05:31 06:14-06:48/34
	16:58	17:49	18:39 07:38-07:57/19	20:30	21:19	21:58
10	08:47 11:38-12:19/41	08:09	07:13 17:15-17:55/40	07:03	06:04	05:31 06:15-06:48/33
	16:59	17:51	18:40 07:35-07:56/21	20:32	21:20	21:59
11	08:46 11:39-12:18/39	08:08	07:10 17:14-17:56/42	07:01	06:03	05:31 06:15-06:49/34
	17:00	17:53	18:42 07:34-07:56/22	20:33	21:22	22:00
12	08:46 11:40-12:17/37	08:06	07:08 17:13-17:57/44	06:59	06:01	05:30 06:15-06:48/33
	17:02	17:54	18:44 07:34-07:56/22	20:35	21:24	22:00
13	08:45 11:42-12:18/36	08:04 08:28-08:36/8	07:06 17:11-17:57/46	06:57	05:59	05:30 06:15-06:49/34
	17:03	17:56	18:45 07:34-07:56/22	20:37	21:25	22:01
14	08:44 11:43-12:17/34	08:02 08:26-08:39/13	07:04 17:10-17:58/48	06:55	05:58	05:30 06:15-06:49/34
	17:05	17:58	18:47 07:34-07:54/20	20:38	21:27	22:01
15	08:44 11:45-12:16/31	08:00 08:24-08:41/17	07:02 17:10-17:59/49	06:52	05:56	05:30 06:16-06:49/33
	17:06	18:00	18:49 07:35-07:54/19	20:40	21:28	22:02
16	08:43 11:46-12:15/29	07:58 08:22-08:42/20	06:59 17:09-17:59/50	06:50	05:55	05:30 06:16-06:49/33
	17:08	18:02	18:50 07:36-07:52/16	20:42	21:30	22:02
17	08:42 11:48-12:13/25	07:56 08:21-08:43/22	06:57 17:08-17:59/51	06:48	05:53 06:28-06:29/1	05:29 06:16-06:50/34
	17:09	18:03	18:52 07:37-07:51/14	20:43	21:31	22:03
18	08:41 11:51-12:11/20	07:55 08:20-08:44/24	06:55 17:07-17:59/52	06:46	05:52 06:23-06:34/11	05:29 06:16-06:50/34
	17:11	18:05	18:54 07:39-07:47/8	20:45	21:32	22:03
19	08:40 11:54-12:08/14	07:53 08:19-08:45/26	06:53 17:07-17:59/52	06:44 07:07-07:08/1	05:51 06:21-06:37/16	05:29 06:16-06:50/34
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 08:18-08:45/27	06:50 17:07-17:59/52	06:42 07:05-07:08/3	05:49 06:20-06:38/18	05:30 06:16-06:50/34
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49 08:18-08:45/27	06:48 17:06-17:58/52	06:40 07:03-07:09/6	05:48 06:19-06:40/21	05:30 06:16-06:50/34
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 08:18-08:45/27	06:46 17:07-17:58/51	06:38 07:01-07:09/8	05:47 06:17-06:40/23	05:30 06:17-06:51/34
	17:17	18:12 08:10-08:12/2	19:00	20:52	21:38	22:04
23	08:36	07:45 08:18-08:45/27	06:44 17:07-17:58/51	06:36 06:59-07:08/9	05:46 06:16-06:41/25	05:30 06:17-06:51/34
	17:19	18:14 08:08-08:14/6	19:02	20:53	21:39	22:05
24	08:35	07:43 08:18-08:45/27	06:41 17:06-17:56/50	06:34 06:57-07:07/10	05:44 06:16-06:42/26	05:30 06:17-06:51/34
	17:21	18:16 08:06-08:15/9	19:04	20:55	21:41	22:05
25	08:33	07:40 08:19-08:44/25	06:39 07:01-07:04/3 17:07-17:56/49	06:32 06:55-07:06/11	05:43 06:15-06:42/27	05:31 06:18-06:52/34
	17:22	18:18 08:04-08:15/11	19:05 18:39-18:40/1	20:56	21:42	22:05
26	08:32	07:38 08:19-08:44/25	06:37 06:59-07:07/8 17:07-17:55/48	06:30 06:56-07:05/9	05:42 06:15-06:43/28	05:31 06:18-06:52/34
	17:24	18:19 08:02-08:16/14	19:07 18:37-18:42/5	20:58	21:43	22:05
27	08:31	07:36 08:20-08:43/23	06:34 06:57-07:09/12 17:08-17:55/47	06:28 06:58-07:02/4	05:41 06:14-06:44/30	05:32 06:19-06:52/33
	17:26	18:21 08:00-08:16/16	19:09 18:36-18:44/8	21:00	21:45	22:05
28	08:30	07:34 08:20-08:41/21	06:32 06:55-07:10/15 17:08-17:53/45	06:26	05:40 06:14-06:44/30	05:32 06:18-06:52/34
	17:28	18:23 07:57-08:15/18	19:10 18:34-18:45/11	21:01	21:46	22:05
29	08:28		07:30 07:52-08:10/18 18:09-18:52/43	06:24	05:39 06:15-06:45/30	05:33 06:19-06:53/34
	17:29		20:12 19:33-19:47/14	21:03	21:47	22:05
30	08:27		07:28 07:50-08:10/20 18:10-18:51/41	06:22	05:38 06:14-06:45/31	05:33 06:19-06:52/33
	17:31		20:14 19:33-19:49/16	21:05	21:48	22:04
31	08:25		07:25 07:48-08:10/22 18:11-18:50/39		05:37 06:14-06:46/32	
	17:33		20:15 19:33-19:50/17		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	716	435	1668	399	349	1006

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT19 - VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:19-06:53/34	06:09	06:57	07:44 17:51-18:36/45	07:36	08:26 11:21-12:00/39
	22:04	21:34	20:33	19:25 08:13-08:35/22	17:21	16:42
2	05:34 06:19-06:53/34	06:11	06:59	07:46 17:52-18:36/44	07:38	08:27 11:21-12:02/41
	22:04	21:32	20:31	19:23 08:13-08:35/22	17:19	16:41
3	05:35 06:19-06:53/34	06:12	07:00	07:48 17:52-18:33/41	07:40	08:29 11:20-12:02/42
	22:03	21:30	20:29	19:21 08:12-08:34/22	17:17	16:41
4	05:36 06:20-06:54/34	06:13	07:02	07:49 17:54-18:32/38	07:42	08:30 11:21-12:04/43
	22:03	21:29	20:27	19:19 08:14-08:34/20	17:16	16:40
5	05:37 06:20-06:54/34	06:15	07:03 07:43-07:58/15	07:51 17:55-18:30/35	07:43	08:31 11:20-12:04/44
	22:03	21:27	20:24	19:16 08:16-08:33/17	17:14	16:40
6	05:37 06:20-06:53/33	06:17	07:05 07:40-07:59/19	07:52 17:56-18:28/32	07:45	08:33 11:20-12:05/45
	22:02	21:25	20:22	19:14 08:17-08:31/14	17:12	16:39
7	05:38 06:20-06:54/34	06:18	07:06 07:39-08:01/22	07:54 17:58-18:25/27	07:47	08:34 11:21-12:07/46
	22:02	21:23	20:20 18:18-18:32/14	19:12 08:19-08:30/11	17:11	16:39
8	05:39 06:21-06:54/33	06:20	07:08 07:37-08:01/24 18:13-18:35/22	07:56 18:01-18:23/22	07:49	08:35 11:21-12:07/46
	22:01	21:22	20:18 19:31-19:39/8	19:10 08:21-08:28/7	17:09	16:39
9	05:40 06:21-06:54/33	06:21	07:10 07:37-08:02/25 18:10-18:37/27	07:57 18:04-18:18/14	07:50	08:36 11:21-12:08/47
	22:00	21:20	20:15 19:29-19:41/12	19:08 08:38-08:41/3	17:07	16:39
10	05:41 06:21-06:54/33	06:23	07:11 07:36-08:02/26 18:07-18:39/32	07:59 08:35-08:45/10	07:52	08:37 11:21-12:08/47
	22:00	21:18	20:13 19:27-19:41/14	19:05	17:06	16:38
11	05:42 06:22-06:54/32	06:24	07:13 07:38-08:02/24 18:06-18:40/34	08:01 09:00-09:09/9	07:54	08:38 11:21-12:09/48
	21:59	21:16	20:11 19:26-19:42/16	19:03 08:33-08:47/14	17:04	16:38
12	05:43 06:22-06:54/32	06:26	07:14 07:39-08:01/22 18:03-18:41/38	08:02 08:57-09:12/15	07:56	08:39 11:21-12:09/48
	21:58	21:14	20:09 19:24-19:42/18	19:01 08:32-08:48/16	17:03	16:38
13	05:44 06:23-06:54/31	06:27	07:16 07:41-08:01/20 18:02-18:42/40	08:04 08:54-09:13/19	07:57	08:40 11:21-12:10/49
	21:57	21:12	20:06 19:24-19:40/16	18:59 08:31-08:48/17	17:01	16:38
14	05:45 06:23-06:54/31	06:29	07:17 07:42-08:00/18 17:59-18:42/43	08:06 08:53-09:14/21	07:59	08:41 11:21-12:11/50
	21:56	21:11	20:04 19:24-19:37/13	18:57 08:31-08:48/17	17:00	16:38
15	05:46 06:23-06:54/31	06:30	07:19 07:44-07:59/15 17:58-18:43/45	08:07 08:52-09:15/23	08:01	08:42 11:22-12:12/50
	21:55	21:09	20:02 19:24-19:35/11	18:55 08:33-08:48/15	16:59	16:38
16	05:48 06:24-06:53/29	06:32 07:05-07:10/5	07:21 07:45-07:57/12 17:57-18:43/46	08:09 08:51-09:16/25	08:02	08:43 11:22-12:12/50
	21:54	21:07	19:59 19:24-19:33/9	18:52 08:35-08:48/13	16:57	16:38
17	05:49 06:24-06:53/29	06:34 07:02-07:12/10	07:22 07:47-07:56/9 17:56-18:44/48	08:11 08:50-09:16/26	08:04	08:44 11:23-12:13/50
	21:53	21:05	19:57 19:25-19:31/6	18:50 08:36-08:46/10	16:56	16:38
18	05:50 06:25-06:52/27	06:35 07:02-07:13/11	07:24 07:49-07:53/4 17:54-18:43/49	08:12 08:49-09:16/27	08:06	08:45 11:23-12:13/50
	21:52	21:03	19:55 19:26-19:28/2	18:48 08:38-08:46/8	16:55	16:39
19	05:51 06:25-06:52/27	06:37 07:03-07:13/10	07:25 17:54-18:44/50	08:14 08:49-09:17/28	08:07	08:45 11:23-12:14/51
	21:51	21:01	19:53	18:46 08:40-08:45/5	16:53	16:39
20	05:52 06:27-06:52/25	06:38 07:05-07:14/9	07:27 17:53-18:44/51	08:16 08:49-09:17/28	08:09	08:46 11:24-12:15/51
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 06:27-06:51/24	06:40 07:06-07:13/7	07:28 17:52-18:43/51	08:17 08:49-09:16/27	08:11	08:46 11:24-12:15/51
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 06:28-06:50/22	06:41 07:08-07:13/5	07:30 17:52-18:44/52	08:19 08:49-09:15/26	08:12	08:47 11:25-12:16/51
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:49/20	06:43 07:09-07:12/3	07:32 17:51-18:43/52	08:21 08:50-09:15/25	08:14 11:30-11:44/14	08:48 11:25-12:16/51
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:48/17	06:44	07:33 17:51-18:43/52	08:23 08:50-09:14/24	08:15 11:28-11:48/20	08:48 11:25-12:16/51
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:46/13	06:46	07:35 17:50-18:42/52	07:24 07:51-08:14/23	08:17 11:26-11:51/25	08:48 11:27-12:17/50
	21:44	20:48	19:39 08:24-08:27/3	17:34	16:47	16:42
26	06:00 06:35-06:43/8	06:48	07:36 17:50-18:41/51	07:26 07:53-08:12/19	08:19 11:24-11:53/29	08:49 11:27-12:17/50
	21:42	20:46	19:37 08:20-08:31/11	17:32	16:46	16:43
27	06:02	06:49	07:38 17:51-18:41/50	07:28 07:54-08:10/16	08:20 11:24-11:55/31	08:49 11:27-12:17/50
	21:41	20:44	19:34 08:18-08:33/15	17:30	16:45	16:43
28	06:03	06:51	07:40 17:50-18:40/50	07:30 07:56-08:08/12	08:22 11:23-11:57/34	08:49 11:28-12:17/49
	21:40	20:42	19:32 08:16-08:34/18	17:28	16:44	16:44
29	06:05	06:52	07:41 17:51-18:39/48	07:31 07:59-08:04/5	08:23 11:22-11:58/36	08:49 11:28-12:18/50
	21:38	20:40	19:30 08:15-08:35/20	17:26	16:43	16:45
30	06:06	06:54	07:43 17:50-18:37/47	07:33	08:25 11:22-11:59/37	08:49 11:29-12:18/49
	21:37	20:38	19:28 08:14-08:36/22	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 11:30-12:18/48
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	734	60	1513	959	226	1487

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:05-16:14/9 13:09-13:47/38	08:24 14:19-14:52/33	07:32 17:40-17:59/19	07:23 19:11-19:50/39	06:20	05:36
	16:48 13:48-14:59/71	17:35	18:25	20:17	21:06	21:51
2	08:50 16:05-16:15/10 13:10-13:47/37	08:23 14:22-14:49/27	07:30 17:39-18:01/22	07:21 19:11-19:50/39	06:18	05:36
	16:49 13:48-14:59/71	17:36	18:26	20:19	21:08	21:52
3	08:49 16:06-16:17/11 13:11-13:47/36	08:21 14:27-14:45/18	07:28 17:39-18:03/24	07:19 19:10-19:51/41	06:16	05:35 06:03-06:05/2
	16:50 13:49-15:00/71	17:38	18:28	20:20	21:10	21:53
4	08:49 16:05-16:17/12 13:12-13:46/34	08:19	07:26 17:38-18:05/27	07:17 19:10-19:51/41	06:15	05:34 06:02-06:06/4
	16:51 13:49-15:00/71	17:40	18:30	20:22	21:11	21:54
5	08:49 16:06-16:19/13 13:14-13:46/32	08:18	07:24 17:37-18:06/29	07:14 19:10-19:50/40	06:13	05:33 06:02-06:07/5
	16:52 13:50-15:00/70	17:42	18:32	20:24	21:13	21:55
6	08:49 16:05-16:20/15 13:14-13:45/31	08:16	07:21 17:37-18:07/30	07:12 19:09-19:49/40	06:11	05:33 06:01-06:07/6
	16:54 13:50-15:00/70	17:44	18:33	20:25	21:14	21:56
7	08:48 16:06-16:22/16 13:17-13:45/28	08:15	07:19 17:37-18:07/30	07:10 19:09-19:49/40	06:09	05:32 06:01-06:08/7
	16:55 13:51-15:01/70	17:45	18:35	20:27	21:16	21:56
8	08:48 16:06-16:22/16 13:18-13:43/25	08:13	07:17 17:37-18:07/30	07:08 19:10-19:48/38	06:08	05:32 06:01-06:10/9
	16:56 13:51-15:01/70	17:47	18:37	20:29	21:17	21:57
9	08:48 16:06-16:25/19 13:21-13:43/22	08:11	07:15 17:37-18:06/29	07:05 19:10-19:48/38	06:06	05:31 06:00-06:09/9
	16:58 13:52-15:02/70	17:49	18:39	20:30	21:19	21:58
10	08:47 16:06-16:26/20 13:23-13:41/18	08:09	07:13 17:37-18:05/28	07:03 19:11-19:47/36	06:04	05:31 06:00-06:10/10
	16:59 13:52-15:02/70	17:51	18:40	20:32	21:21	21:59
11	08:46 16:06-16:27/21 13:27-13:37/10	08:08	07:10 17:38-18:04/26	07:01 19:11-19:45/34	06:03	05:31 06:00-06:11/11
	17:00 13:53-15:01/68	17:53	18:42	20:34	21:22	22:00
12	08:46 16:07-16:29/22	08:06	07:08 17:39-18:03/24	06:59 19:11-19:44/33	06:01	05:30 05:59-06:11/12
	17:02 13:54-15:02/68	17:54	18:44	20:35	21:24	22:00
13	08:45 16:07-16:31/24	08:04	07:06 17:40-18:01/21	06:57 19:13-19:43/30	05:59 20:55-20:56/1	05:30 05:59-06:11/12
	17:03 13:55-15:02/67	17:56	18:45	20:37	21:25	22:01
14	08:45 16:07-16:32/25	08:02	07:04 17:42-17:59/17	06:55 19:14-19:41/27	05:58 20:56-20:57/1	05:30 05:59-06:12/13
	17:05 13:55-15:02/67	17:58	18:47	20:38	21:27	22:02
15	08:44 16:07-16:34/27	08:00	07:02 17:45-17:56/11	06:52 19:16-19:40/24	05:56	05:30 05:59-06:12/13
	17:06 13:56-15:02/66	18:00	18:49	20:40	21:28	22:02
16	08:43 16:08-16:35/27	07:58	06:59	06:50 19:18-19:37/19	05:55	05:30 05:59-06:13/14
	17:08 13:57-15:02/65	18:02	18:50	20:42	21:30	22:03
17	08:42 16:08-16:36/28	07:57	06:57	06:48 19:20-19:34/14	05:53	05:29 05:59-06:13/14
	17:09 13:57-15:02/65	18:03	18:52	20:43	21:31	22:03
18	08:41 16:09-16:37/28	07:55	06:55	06:46	05:52	05:29 05:59-06:13/14
	17:11 13:58-15:02/64	18:05	18:54	20:45	21:33	22:03
19	08:40 16:09-16:37/28	07:53	06:53	06:44	05:51	05:29 05:59-06:13/14
	17:12 13:59-15:02/63	18:07	18:55	20:47	21:34	22:04
20	08:39 16:10-16:37/27	07:51	06:50	06:42	05:49	05:30 05:59-06:13/14
	17:14 14:00-15:02/62	18:09	18:57	20:48	21:35	22:04
21	08:38 16:10-16:37/27	07:49	06:48	06:40	05:48	05:30 05:59-06:14/15
	17:16 14:01-15:01/60	18:11	18:59	20:50	21:37	22:04
22	08:37 16:11-16:37/26	07:47	06:46	06:38	05:47	05:30 06:00-06:14/14
	17:17 14:02-15:01/59	18:12	19:00	20:52	21:38	22:05
23	08:36 16:12-16:37/25	07:45	06:44 18:28-18:37/9	06:36	05:46	05:30 06:00-06:14/14
	17:19 14:03-15:01/58	18:14	19:02	20:53	21:40	22:05
24	08:35 16:13-16:37/24	07:43	06:41 18:23-18:38/15	06:34	05:44	05:30 06:00-06:14/14
	17:21 14:05-15:01/56	18:16	19:04	20:55	21:41	22:05
25	08:34 16:13-16:36/23	07:41 17:48-17:52/4	06:39 18:21-18:40/19	06:32	05:43	05:31 06:01-06:15/14
	17:22 14:05-15:00/55	18:18	19:05	20:57	21:42	22:05
26	08:32 16:15-16:36/21	07:38 17:46-17:54/8	06:37 18:19-18:42/23	06:30	05:42	05:31 06:01-06:15/14
	17:24 14:07-14:59/52	18:19	19:07	20:58	21:43	22:05
27	08:31 16:16-16:34/18	07:36 17:44-17:56/12	06:35 18:17-18:44/27	06:28	05:41	05:32 06:02-06:15/13
	17:26 14:08-14:58/50	18:21	19:09	21:00	21:45	22:05
28	08:30 16:18-16:34/16	07:34 17:41-17:57/16	06:32 18:15-18:45/30	06:26	05:40	05:32 06:02-06:15/13
	17:28 14:10-14:58/48	18:23	19:10	21:01	21:46	22:05
29	08:28 16:20-16:32/12		07:30 19:14-19:47/33	06:24	05:39	05:33 06:03-06:16/13
	17:29 14:11-14:56/45		20:12	21:03	21:47	22:05
30	08:27 16:24-16:29/5		07:28 19:13-19:49/36	06:22	05:38	05:33 06:03-06:15/12
	17:31 14:14-14:55/41		20:14	21:05	21:48	22:04
31	08:26 14:16-14:53/37		07:26 19:13-19:50/37		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2826	118	596	573	2	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11 22:04	06:09 21:34	06:57 19:10-19:45/35 20:33	07:44 18:19-18:42/23 19:25	07:37 17:21	08:26 15:48-16:09/21 13:10-13:19/9 16:42 13:35-14:44/69
2	05:34 06:04-06:15/11 22:04	06:11 21:32	06:59 19:09-19:45/36 20:31	07:46 18:17-18:43/26 19:23	07:38 17:19	08:27 15:49-16:09/20 13:07-13:23/16 16:41 13:36-14:45/69
3	05:35 06:05-06:15/10 22:04	06:12 21:30	07:00 19:08-19:46/38 20:29	07:48 18:16-18:43/27 19:21	07:40 17:17	08:29 15:49-16:08/19 13:04-13:26/22 16:41 13:35-14:45/70
4	05:36 06:06-06:15/9 22:03	06:14 21:29	07:02 19:07-19:45/38 20:27	07:49 18:15-18:43/28 19:19	07:42 17:16	08:30 15:51-16:08/17 13:03-13:28/25 16:40 13:36-14:46/70
5	05:37 06:07-06:15/8 22:03	06:15 21:27	07:03 19:07-19:46/39 20:24	07:51 18:14-18:44/30 19:16	07:44 17:14	08:31 15:51-16:07/16 13:02-13:30/28 16:40 13:36-14:46/70
6	05:37 06:07-06:14/7 22:02	06:17 21:25	07:05 19:05-19:45/40 20:22	07:53 18:13-18:43/30 19:14	07:45 17:12	08:33 15:51-16:06/15 13:01-13:31/30 16:39 13:36-14:46/70
7	05:38 06:08-06:14/6 22:02	06:18 21:24	07:07 19:05-19:46/41 20:20	07:54 18:13-18:43/30 19:12	07:47 14:05-14:08/3 17:11	08:34 15:53-16:06/13 13:01-13:33/32 16:39 13:37-14:47/70
8	05:39 06:09-06:13/4 22:01	06:20 21:22	07:08 19:04-19:45/41 20:18	07:56 18:13-18:43/30 19:10	07:49 13:57-14:16/19 17:09	08:35 15:53-16:05/12 13:00-13:34/34 16:39 13:37-14:48/71
9	05:40 06:10-06:13/3 22:00	06:21 21:20	07:10 19:05-19:45/40 20:15	07:57 18:12-18:40/28 19:08	07:50 13:53-14:20/27 17:07	08:36 15:54-16:05/11 13:00-13:35/35 16:38 13:37-14:48/71
10	05:41 06:11-06:12/1 22:00	06:23 21:18	07:11 19:04-19:44/40 20:13	07:59 18:13-18:38/25 19:05	07:52 13:50-14:23/33 17:06	08:37 15:54-16:04/10 12:59-13:36/37 16:38 13:37-14:48/71
11	05:42 21:59	06:24 21:16	07:13 19:04-19:43/39 20:11	08:01 18:13-18:36/23 19:03	07:54 13:47-14:25/38 17:04	08:38 15:55-16:04/9 12:59-13:37/38 16:38 13:38-14:49/71
12	05:43 21:58	06:26 21:14	07:14 19:04-19:42/38 20:09	08:02 18:13-18:33/20 19:01	07:56 15:54-16:00/6 17:03 13:45-14:26/41	08:39 15:56-16:04/8 12:59-13:37/38 16:38 13:38-14:49/71
13	05:44 21:57	06:27 21:13	07:16 19:05-19:40/35 20:06	08:04 18:14-18:31/17 18:59	07:57 15:51-16:04/13 17:01 13:43-14:28/45	08:40 15:56-16:04/8 16:38 12:59-14:50/111
14	05:45 21:56	06:29 21:11	07:17 19:04-19:37/33 20:04	08:06 18:15-18:29/14 18:57	07:59 15:50-16:06/16 17:00 13:42-14:30/48	08:41 15:57-16:04/7 16:38 12:59-14:50/111
15	05:46 21:56	06:30 21:09	07:19 19:05-19:35/30 20:02	08:07 18:17-18:27/10 18:55	08:01 15:49-16:07/18 16:59 13:41-14:31/50	08:42 15:58-16:04/6 16:38 12:59-14:51/112
16	05:48 21:55	06:32 21:07	07:21 19:06-19:33/27 20:00	08:09 18:18-18:24/6 18:52	08:02 15:48-16:09/21 16:57 13:40-14:32/52	08:43 15:59-16:04/5 16:38 12:59-14:52/113
17	05:49 21:54	06:34 21:05	07:22 19:07-19:31/24 19:57	08:11 18:21-18:22/1 18:50	08:04 15:47-16:10/23 16:56 13:39-14:34/55	08:44 16:00-16:05/5 16:38 13:00-14:52/112
18	05:50 21:53	06:35 21:03	07:24 19:08-19:28/20 19:55	08:12 18:48	08:06 15:47-16:11/24 16:55 13:39-14:35/56	08:45 16:00-16:04/4 16:39 13:00-14:52/112
19	05:51 21:51	06:37 21:01	07:25 19:10-19:26/16 19:53	08:14 18:46	08:08 15:46-16:11/25 16:53 13:37-14:35/58	08:45 16:00-16:05/5 16:39 13:00-14:53/113
20	05:52 21:50	06:38 20:59	07:27 19:13-19:24/11 19:50	08:16 18:44	08:09 15:46-16:12/26 16:52 13:37-14:36/59	08:46 16:01-16:05/4 16:39 13:01-14:54/113
21	05:54 21:49	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:46-16:13/27 16:51 13:37-14:37/60	08:47 16:01-16:05/4 16:40 13:01-14:54/113
22	05:55 21:48	06:41 20:55	07:30 19:46	08:19 18:40	08:12 15:46-16:13/27 16:50 13:36-14:38/62	08:47 16:02-16:06/4 16:40 13:02-14:55/113
23	05:56 21:47	06:43 20:53	07:32 19:44	08:21 18:38	08:14 15:45-16:13/28 16:49 13:35-14:38/63	08:48 16:02-16:06/4 16:41 13:02-14:55/113
24	05:58 21:45	06:45 20:50	07:33 19:41	08:23 18:36	08:16 15:46-16:14/28 16:48 13:35-14:39/64	08:48 16:02-16:07/5 16:41 13:03-14:55/112
25	05:59 21:44	06:46 19:29-19:31/2 20:48	07:35 19:39	07:24 17:34	08:17 15:46-16:14/28 16:47 13:36-14:40/64	08:48 16:04-16:08/4 16:42 13:03-14:56/113
26	06:00 21:43	06:48 19:23-19:37/14 20:46	07:36 19:37	07:26 17:32	08:19 15:46-16:13/27 16:46 13:35-14:40/65	08:49 16:04-16:08/4 16:43 13:04-14:56/112
27	06:02 21:41	06:49 19:19-19:39/20 20:44	07:38 19:34	07:28 17:30	08:20 15:47-16:13/26 16:45 13:35-14:41/66	08:49 16:04-16:09/5 16:43 13:04-14:56/112
28	06:03 21:40	06:51 19:17-19:42/25 20:42	07:40 18:27-18:36/9 19:32	07:30 17:28	08:22 15:47-16:12/25 16:44 13:35-14:42/67	08:49 16:04-16:10/6 16:44 13:05-14:57/112
29	06:05 21:38	06:52 19:15-19:42/27 20:40	07:41 18:23-18:39/16 19:30	07:31 17:26	08:23 15:47-16:11/24 16:43 13:35-14:42/67	08:49 16:04-16:10/6 16:45 13:06-14:57/111
30	06:06 21:06-21:07/1 21:37	06:54 19:13-19:44/31 20:38	07:43 18:20-18:40/20 19:28	07:33 17:25	08:25 15:48-16:10/22 16:43 13:35-14:43/68	08:50 16:04-16:11/7 16:46 13:06-14:58/112
31	06:08 21:05-21:06/1 21:35	06:56 19:11-19:44/33 20:35		07:35 17:23		08:50 16:04-16:12/8 13:07-13:46/39 16:47 13:47-14:58/71
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	72	152	706	368	1664	3589

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 09:18-09:25/7	07:32 08:04-08:08/4	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:49/1	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46 08:11-08:12/1	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:48/2	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:10-08:12/2	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:45-08:46/1	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42 08:09-08:14/5	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:43-08:46/3	07:23	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43 08:11-08:15/4	08:31
	16:52	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16 08:41-08:45/4	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45 08:13-08:15/2	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:17/2	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13 08:41-08:42/1	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:19/2	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:48-08:56/8	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:46-08:58/12	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08 07:31-07:32/1	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:45-08:59/14	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45 09:14-09:20/6	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04 08:36-08:43/7	07:57 08:44-09:01/17	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:13-09:22/9	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06 08:34-08:44/10	07:59 08:44-09:02/18	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43 09:12-09:23/11	08:00 08:24-08:26/2	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07 08:34-08:45/11	08:01 08:44-09:02/18	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55 08:47-08:53/6	16:59	16:38
16	08:43 09:11-09:24/13	07:58 08:22-08:25/3	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:34-08:54/20	08:02 08:44-09:03/19	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57 08:33-08:39/6	16:38
17	08:42 09:10-09:25/15	07:56 08:20-08:25/5	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11 08:36-08:56/20	08:04 08:44-09:04/20	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56 08:34-08:41/7	16:38
18	08:41 09:10-09:26/16	07:54 08:18-08:23/5	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12 08:38-08:57/19	08:06 08:43-09:03/20	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55 08:36-08:42/6	16:39
19	08:40 09:10-09:27/17	07:52 08:16-08:25/9	06:52	06:44	05:51	05:29	05:51	06:37	07:25	08:14 08:40-08:57/17	08:07 08:44-09:04/20	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53 08:37-08:41/4	16:39
20	08:39 09:09-09:27/18	07:50 08:14-08:25/11	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16 08:42-08:57/15	08:09 08:44-09:04/20	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52 08:39-08:42/3	16:39
21	08:38 09:09-09:28/19	07:48 08:12-08:26/14	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17 08:43-08:56/13	08:11 08:45-09:04/19	08:46
	17:16 09:05-09:06/1	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51 08:41-08:42/1	16:40
22	08:37 09:09-09:29/20	07:46 08:10-08:26/16	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19 08:45-08:56/11	08:12 08:45-09:03/18	08:47
	17:17 09:04-09:07/3	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:10-09:30/20	07:44 08:08-08:26/18	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21 08:47-08:55/8	08:14 08:46-09:03/17	08:47
	17:19 09:03-09:07/4	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:09-09:29/20	07:42 08:06-08:25/19	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22 08:49-08:54/5	08:15 08:47-09:04/17	08:48
	17:21 09:02-09:08/6	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:10-09:30/20	07:40 08:04-08:24/20	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24 07:51-07:56/5	08:17 08:48-09:04/16	08:48
	17:22 09:00-09:07/7	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:11-09:30/19	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26 07:53-07:56/3	08:18 08:49-09:02/13	08:49
	17:24 09:00-09:06/6	18:19 08:14-08:22/8	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:11-09:29/18	07:36 08:02-08:13/11	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28 07:54-07:55/1	08:20 08:51-09:02/11	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:12-09:30/18	07:34 08:02-08:11/9	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:21 08:53-09:02/9	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 09:12-09:29/17		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 08:54-09:00/6	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 09:14-09:28/14		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 09:15-09:27/12		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	329	185	5	0	0	0	0	0	0	172	356	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45 08:16-08:23/7	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:25/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:26/9	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:26/7	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:27/6	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:23-08:27/4	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:26/2	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:27/1	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:38-08:45/7	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:37-08:47/10	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02 08:37-08:48/11	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04 08:36-08:49/13	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41 09:09-09:13/4	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06 08:35-08:49/14	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 09:08-09:14/6	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:50/13	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:06-09:14/8	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09 08:39-08:50/11	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:14/9	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:50/9	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37 09:04-09:15/11	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:51/8	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:03-09:16/13	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:50/6	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:01-09:15/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15 08:46-08:50/4	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:02-09:15/13	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:04-09:15/11	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:04-09:14/10	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:06-09:13/7	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:55/4		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	115	37	0	0	0	0	0	0	0	0	154	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 08:50-08:57/7 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:04-08:10/6 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:57/9 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:06-08:11/5 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:56/10 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:07-08:10/3 17:17	08:29 16:41
4	08:49 16:51	08:19 08:46-08:56/10 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:10/1 17:16	08:30 16:40
5	08:49 16:53	08:18 08:47-08:55/8 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:34 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:18-08:23/5 17:14	08:31 16:40
6	08:48 16:54	08:16 08:49-08:53/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:17-08:25/8 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:40/1 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:16-08:26/10 17:11	08:34 16:39
8	08:48 16:56	08:13 08:38-08:41/3 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:27/10 17:09	08:35 16:39
9	08:47 16:58	08:11 08:36-08:41/5 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 08:19-08:28/9 17:07	08:36 16:39
10	08:47 16:59	08:09 08:34-08:40/6 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:21-08:28/7 17:06	08:37 16:38
11	08:46 17:00	08:07 08:32-08:39/7 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:22-08:27/5 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:24-08:27/3 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:43 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:55	08:44 16:39
19	08:40 17:12	07:52 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:50 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:48 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 18:42	08:11 16:51	08:46 16:40
22	08:37 17:17	07:46 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:47 16:41
24	08:35 17:21	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 18:36	08:15 16:48	08:48 16:41
25	08:33 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 17:32	08:18 16:46	08:48 16:43
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:29 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 16:44	08:49 16:44
29	08:28 08:54-08:55/1 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 08:53-08:56/3 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 08:04-08:06/2 17:25	08:24 16:43	08:49 16:46
31	08:25 08:51-08:56/5 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 08:02-08:09/7 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:26/6	08:24 08:50-08:54/4	07:32 07:55-08:17/22	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:27/7	08:22 08:48-08:52/4	07:30 07:53-08:18/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:27/7	08:21	07:28 07:51-07:52/1	07:19	06:16	05:35
	16:50	17:38	18:28 07:53-08:19/26	20:20	21:09	21:53
4	08:49 09:19-09:26/7	08:19	07:26 07:49-08:19/30	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:20-09:26/6	08:18	07:24 07:46-08:18/32	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:20-09:25/5	08:16	07:21 07:44-08:18/34	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:23-09:24/1	08:14	07:19 07:42-08:18/36	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:40-08:18/38	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15 07:38-08:17/39	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:37-08:15/38	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08	07:10 07:38-08:14/36	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08 07:39-07:52/13	06:59	06:01	05:30
	17:02	17:54	18:44 07:54-08:13/19	20:35	21:24	22:00
13	08:45	08:04	07:06 07:40-07:50/10	06:57	05:59	05:30
	17:03	17:56	18:45 07:56-08:10/14	20:37	21:25	22:01
14	08:44	08:02	07:04 07:58-08:06/8	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02 17:32-17:34/2	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:23/3	06:57	06:48	05:53	05:29
	17:09	18:03 17:32-17:36/4	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:22/4	06:55	06:46	05:52	05:29
	17:11	18:05 17:33-17:38/5	18:54	20:45	21:32	22:03
19	08:40	07:53 08:16-08:21/5	06:53	06:44	05:51	05:30
	17:12	18:07 17:34-17:40/6	18:55	20:47	21:34	22:04
20	08:39	07:51 08:16-08:19/3	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:15/15	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:16/19	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	44	92	421	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40 18:07-18:10/3	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38 18:04-18:10/6	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36 18:03-18:08/5	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34 17:02-17:05/3	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32 17:01-17:03/2	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	496	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 08:50-08:57/7	07:32	07:23	06:20	05:36
	16:48	17:35 09:06-09:28/22	18:25	20:17	21:06	21:50
2	08:49	08:22 08:48-08:56/8	07:30	07:21	06:18	05:36
	16:49	17:36 09:07-09:27/20	18:26	20:19	21:08	21:51
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35
	16:50	17:38 09:08-09:26/18	18:28	20:20	21:09	21:52
4	08:49	08:19 08:45-08:55/10	07:26	07:16	06:15	05:34
	16:51	17:40 09:10-09:25/15	18:30	20:22	21:11	21:53
5	08:49	08:18 08:43-08:55/12	07:24	07:14	06:13	05:34
	16:53	17:42 09:13-09:22/9	18:32	20:24	21:13	21:54
6	08:49	08:16 08:41-08:56/15	07:21 07:44-07:45/1	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48	08:14 08:39-08:56/17	07:19 07:42-07:44/2	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13 08:38-08:56/18	07:17 07:40-07:42/2	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:17-09:18/1	08:11 08:36-08:56/20	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47 09:16-09:18/2	08:09 08:34-08:55/21	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:18/3	08:07 08:37-08:55/18	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:14-09:19/5	08:06 08:38-08:54/16	07:08	06:59	06:01	05:30
	17:02 16:27-16:28/1	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:19/5	08:04 08:39-08:52/13	07:06	06:57	05:59	05:30
	17:03 16:26-16:30/4	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:21/8	08:02 08:42-08:50/8	07:04	06:55	05:58	05:30
	17:05 16:28-16:32/4	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:22/10	08:00	07:01	06:52	05:56	05:30
	17:06 16:28-16:34/6	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:23/12	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08 16:28-16:36/8	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:24/14	07:56 08:20-08:22/2	06:57	06:48	05:53	05:30
	17:09 16:28-16:37/9	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54 08:18-08:19/1	06:55	06:46	05:52	05:30
	17:11 16:29-16:39/10	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:26/18	07:53	06:53	06:44	05:51	05:30
	17:12 16:30-16:41/11	18:07	18:55	20:47	21:34	22:04
20	08:39 09:06-09:26/20	07:51	06:50	06:42	05:49	05:30
	17:14 16:29-16:42/13	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:27/22	07:49	06:48	06:40	05:48	05:30
	17:16 16:31-16:44/13	18:11	18:59	20:50	21:37	22:04
22	08:37 09:04-09:28/24	07:47	06:46	06:38	05:47	05:30
	17:17 16:32-16:44/12	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:28/25	07:45	06:43	06:36	05:46	05:30
	17:19 16:33-16:44/11	18:14	19:02	20:53	21:39	22:05
24	08:35 09:02-09:28/26	07:42	06:41	06:34	05:44	05:30
	17:21 16:35-16:42/7	18:16	19:04	20:55	21:41	22:05
25	08:33 09:02-09:29/27	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:03-09:29/26	07:38	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 09:03-09:29/26	07:36	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 08:56-08:57/1	07:34	06:32	06:26	05:40	05:32
	17:28 09:03-09:30/27	18:23	19:10	21:01	21:46	22:05
29	08:28 08:54-08:57/3		07:30	06:24	05:39	05:33
	17:29 09:03-09:29/26		20:12	21:03	21:47	22:04
30	08:27 08:53-08:58/5		07:28	06:22	05:38	05:33
	17:31 09:05-09:29/24		20:14	21:05	21:48	22:04
31	08:25 08:51-08:57/6		07:25		05:37	
	17:33 09:05-09:28/23		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	514	280	5	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:19/2	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54	08:19-08:21/2	07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55	16:09-16:16/7	16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53	16:07-16:18/11	16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52	16:07-16:19/12	16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51	16:07-16:20/13	16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50	16:06-16:18/12	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49	16:06-16:17/11	16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48	16:06-16:16/10	16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47	16:06-16:15/9	16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46	16:06-16:14/8	16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45	16:07-16:13/6	16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44	16:07-16:12/5	16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44	16:08-16:11/3	16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43	16:09-16:11/2	16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	63		728		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:31-09:50/19	08:24	07:32	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:32-09:51/19	08:22	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:31-09:50/19	08:21	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49 09:33-09:51/18	08:19	07:26	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49 09:34-09:51/17	08:18	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:34-09:50/16	08:16	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:35-09:51/16	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:36-09:50/14	08:13 08:38-08:39/1	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:38-09:50/12	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47 09:39-09:49/10	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:16/1	08:07	07:10	07:01	06:03	05:31
	17:00 09:41-09:48/7	17:53	18:42	20:33	21:22	21:59
12	08:46 09:14-09:17/3	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:18/4	08:04	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:19/6	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:20/8	08:00	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:20/9	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:21/11	07:56	06:57	06:48	05:54	05:30
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:21/12	07:54	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:22/14	07:52	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:22/15	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:21/16	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:05-09:21/16	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:06-09:22/16	07:45	06:43	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:06-09:20/14	07:42 08:06-08:07/1	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:08-09:20/12	07:40 08:04-08:06/2	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 08:59-09:01/2	07:38	06:37	06:30	05:42	05:31
	17:24 09:09-09:19/10	18:19	19:07	20:58	21:43	22:05
27	08:31 08:57-09:00/3	07:36	06:34	06:28	05:41	05:32
	17:26 09:11-09:17/6	18:21	19:09	21:00	21:44	22:05
28	08:30 08:56-09:00/4	07:34	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 08:54-08:58/4		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:04	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	353	5	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-08:58/1
	22:04	21:33	20:33	19:25		17:21		16:42	09:23-09:30/7
2	05:34	06:11	06:59	07:46		07:38		08:27	09:22-09:32/10
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:08-08:09/1	08:29	09:21-09:33/12
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:10/1	08:30	09:21-09:35/14
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43		08:31	09:21-09:36/15
	22:02	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52		07:45		08:32	09:20-09:36/16
	22:02	21:25	20:22	19:14		17:12		16:39	
7	05:38	06:18	07:06	07:54		07:47		08:34	09:20-09:37/17
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49		08:35	09:21-09:39/18
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	09:21-09:39/18
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52		08:37	09:21-09:40/19
	21:59	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54		08:38	09:21-09:40/19
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:55		08:39	09:21-09:41/20
	21:58	21:14	20:09	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:30/4	08:40	09:21-09:41/20
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:32/4	08:41	09:22-09:42/20
	21:56	21:10	20:04	18:57		17:00		16:38	
15	05:46	06:30	07:19	08:07		08:01	08:30-08:33/3	08:42	09:22-09:43/21
	21:55	21:09	20:02	18:55		16:59	08:44-08:50/6	16:38	
16	05:48	06:32	07:21	08:09	08:35-08:36/1	08:02	08:32-08:34/2	08:43	09:23-09:44/21
	21:54	21:07	19:59	18:52		16:57	08:42-08:52/10	16:38	09:17-09:19/2
17	05:49	06:34	07:22	08:11	08:36-08:37/1	08:04	08:42-08:54/12	08:44	09:23-09:44/21
	21:53	21:05	19:57	18:50		16:56		16:39	09:17-09:20/3
18	05:50	06:35	07:24	08:12		08:06	08:40-08:54/14	08:44	09:23-09:44/21 09:16-09:21/5
	21:52	21:03	19:55	18:48		16:55		16:39	15:52-15:54/2
19	05:51	06:37	07:25	08:14		08:07	08:40-08:56/16	08:45	09:24-09:45/21 09:17-09:22/5
	21:51	21:01	19:53	18:46		16:53		16:39	15:53-15:55/2
20	05:53	06:38	07:27	08:16		08:09	08:40-08:56/16	08:46	09:25-09:46/21 09:18-09:23/5
	21:50	20:59	19:50	18:44		16:52		16:39	15:52-15:56/4
21	05:54	06:40	07:28	08:17		08:11	08:41-08:57/16	08:46	09:24-09:46/22 09:18-09:23/5
	21:49	20:57	19:48	18:42		16:51		16:40	15:53-15:57/4
22	05:55	06:41	07:30	08:19		08:12	08:43-08:58/15	08:47	09:25-09:47/22 09:19-09:24/5
	21:48	20:54	19:46	18:40		16:50		16:40	15:53-15:57/4
23	05:56	06:43	07:32	08:21		08:14	08:44-08:58/14	08:47	09:26-09:47/21 09:19-09:24/5
	21:46	20:52	19:43	18:38		16:49		16:41	15:54-15:58/4
24	05:58	06:44	07:33	08:23		08:15	08:46-08:58/12	08:48	09:26-09:47/21 09:19-09:24/5
	21:45	20:50	19:41	18:36		16:48		16:41	15:54-15:57/3
25	05:59	06:46	07:35	07:24		08:17	08:48-08:59/11	08:48	09:27-09:48/21 09:20-09:25/5
	21:44	20:48	19:39	17:34		16:47		16:42	15:55-15:57/2
26	06:00	06:48	07:36	07:26		08:18	08:49-08:58/9	08:49	09:27-09:48/21
	21:42	20:46	19:37	17:32		16:46		16:43	09:20-09:25/5
27	06:02	06:49	07:38	07:28		08:20	08:51-08:59/8	08:49	09:27-09:48/21
	21:41	20:44	19:34	17:30		16:45		16:43	09:21-09:24/3
28	06:03	06:51	07:40	07:29		08:22	08:53-08:59/6	08:49	09:28-09:49/21
	21:40	20:42	19:32	17:28		16:44		16:44	09:23-09:24/1
29	06:05	06:52	07:41	07:31		08:23	08:54-08:59/5	08:49	09:28-09:49/21
	21:38	20:40	19:30	17:26		16:44		16:45	
30	06:06	06:54	07:43	07:33		08:24	08:56-08:59/3	08:49	09:29-09:49/20
	21:37	20:37	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35				08:49	09:30-09:50/20
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	2		188		662	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:48/28	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 09:00-09:33/33
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:00-09:34/34
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:00-09:35/35
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:14/5	08:30 09:02-09:36/34
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43 08:11-08:16/5	08:31 09:03-09:36/33
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45 08:13-08:17/4	08:33 09:04-09:36/32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:18/3	08:34 09:06-09:37/31
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:18/1	08:35 09:07-09:38/31
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:38/30
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:38/29
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:39/29
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56 16:26-16:30/4	08:39 09:11-09:39/28
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04 08:32-08:34/2	07:57 16:24-16:31/7	08:40 09:12-09:39/27
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06 08:31-08:37/6	07:59 16:23-16:29/6	08:41 09:13-09:40/27
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30	05:47	06:30	07:19	08:07 08:33-08:38/5	08:01 16:23-16:28/5	08:42 09:14-09:40/26
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:39/4	08:02 08:38-08:42/4	08:43 09:15-09:41/26
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57 16:23-16:27/4	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04 08:36-08:44/8	08:44 09:16-09:42/26
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56 16:22-16:24/2	16:39
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:36-08:46/10	08:44 09:16-09:41/25
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55 16:22-16:23/1	16:39
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:46/9	08:45 09:17-09:42/25
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:39-08:47/8	08:46 09:18-09:43/25
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:48/7	08:46 09:18-09:43/25
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:49/6	08:47 09:19-09:44/25
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:55	19:46	18:40	16:50 09:16-09:22/6	16:40
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:49/5	08:47 09:19-09:44/25
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49 09:13-09:24/11	16:41
24	08:35 09:02-09:12/10	07:43 08:06-08:07/1	06:41	06:34	05:44	05:31	05:58	06:45	07:33	08:23	08:15 08:46-08:49/3	08:48 09:19-09:44/25
	17:21 16:48-16:49/1	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48 09:12-09:26/14	16:41
25	08:33 09:02-09:10/8	07:40 08:04-08:07/3	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48 09:20-09:45/25
	17:22 16:49-16:52/3	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47 09:12-09:28/16	16:42
26	08:32 09:06-09:08/2	07:38 08:02-08:07/5	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19 09:11-09:29/18	08:49 09:20-09:46/26
	17:24 16:50-16:54/4	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 16:50-16:55/5	07:36 08:00-08:06/6	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 09:11-09:30/19	08:49 09:20-09:46/26
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30 16:51-16:58/7	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 09:04-09:06/2	08:49 09:20-09:46/26
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44 09:11-09:32/21	16:44
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 09:01-09:08/7	08:49 09:20-09:47/27
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44 09:10-09:32/22	16:45
30	08:27 16:55-16:59/4		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:01-09:33/32	08:49 09:20-09:47/27
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:56		07:35		08:49 09:20-09:48/28
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	611	39	0	0	0	0	0	0	0	19	277	871

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: RIN_WT01 - Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18	05:35	05:34	06:10	06:59	07:46	07:38	08:28
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:50	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:44	08:32
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:57	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:18	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:51	08:36
	16:57	17:49	18:39	20:30	21:19	21:58	22:01	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:47	08:08	07:10	07:01	06:03	05:30	05:42	06:24	07:13	08:01	07:54	08:39
	17:00	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:40
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:41
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:45	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:57	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:21	08:09	08:03	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	20:00	18:52	16:57	16:38
17	08:42	07:57	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:04	21:53	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:08	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:36	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:05	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:49
	17:22	18:18	19:05	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:44	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:05	06:52	07:41	07:31	08:23	08:50
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:05	21:37	20:38	19:28	17:25	16:43	16:46
31	08:26		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:50		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:41/2	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:39/2	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:34/2	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08 07:33-07:35/2	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	10	0	0	0	5	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12 06:40-06:41/1	07:00 07:26-07:32/6	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:32/5	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03 07:29-07:33/4	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:36/2	06:11	05:33	05:37	06:16	07:05 07:30-07:32/2	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:36/4	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:35/5	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:34/6	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04 06:29-06:30/1	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55 07:17-07:18/1	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52 07:15-07:18/3	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50 07:13-07:17/4	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48 07:11-07:14/3	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45	05:30	05:56	06:43	07:31 07:56-08:00/4	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33 07:58-08:01/3	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:15/3	07:35 07:59-08:01/2	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	11	25	1	0	0	9	26	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June
1	08:49	08:24	07:32		07:23	07:45-07:46/1	06:20		05:36
	16:48	17:34	18:25		20:17		21:06		21:50
2	08:49	08:22	07:30		07:21		06:18		05:35
	16:49	17:36	18:26		20:18		21:08		21:51
3	08:49	08:21	07:28		07:19		06:16		05:35
	16:50	17:38	18:28		20:20		21:09		21:53
4	08:49	08:19	07:26		07:16	07:39-07:40/1	06:14		05:34
	16:51	17:40	18:30		20:22		21:11		21:54
5	08:49	08:18	07:23		07:14	07:37-07:38/1	06:13		05:33
	16:52	17:42	18:31		20:23		21:13		21:54
6	08:49	08:16	07:21		07:12		06:11		05:33
	16:53	17:43	18:33		20:25		21:14		21:55
7	08:48	08:14	07:19		07:10		06:09		05:32
	16:55	17:45	18:35		20:27		21:16		21:56
8	08:48	08:13	07:17		07:07		06:07		05:32
	16:56	17:47	18:37		20:28		21:17		21:57
9	08:47	08:11	07:15		07:05		06:06		05:31
	16:57	17:49	18:38		20:30		21:19		21:58
10	08:47	08:09	07:12		07:03		06:04		05:31
	16:59	17:51	18:40		20:32		21:20		21:59
11	08:46	08:07	07:10		07:01		06:02		05:30
	17:00	17:52	18:42		20:33		21:22		21:59
12	08:46	08:06	07:08		06:59		06:01		05:30
	17:01	17:54	18:43		20:35		21:23		22:00
13	08:45	08:04	07:06		06:57	07:19-07:21/2	05:59		05:30
	17:03	17:56	18:45		20:37		21:25		22:01
14	08:44	08:02	07:04		06:54	07:17-07:22/5	05:58		05:30
	17:04	17:58	18:47		20:38		21:27		22:01
15	08:44	08:00	07:01		06:52	07:15-07:22/7	05:56		05:29
	17:06	18:00	18:49		20:40		21:28		22:02
16	08:43	07:58	06:59		06:50	07:13-07:21/8	05:55		05:29
	17:07	18:01	18:50		20:42		21:29		22:02
17	08:42	07:56	06:57		06:48	07:12-07:20/8	05:53		05:29
	17:09	18:03	18:52		20:43		21:31		22:03
18	08:41	07:54	06:55		06:46	07:13-07:18/5	05:52		05:29
	17:11	18:05	18:54		20:45		21:32		22:03
19	08:40	07:52	06:52		06:44		05:50		05:29
	17:12	18:07	18:55		20:46		21:34		22:04
20	08:39	07:50	06:50		06:42		05:49		05:29
	17:14	18:09	18:57		20:48		21:35		22:04
21	08:38	07:48	06:48		06:40		05:48	06:14-06:15/1	05:29
	17:15	18:10	18:59		20:50		21:37		22:04
22	08:37	07:46	06:46	07:08-07:10/2	06:38		05:47	06:13-06:15/2	05:30
	17:17	18:12	19:00		20:51		21:38		22:04
23	08:36	07:44	06:43	07:06-07:10/4	06:36	06:59-07:01/2	05:45	06:12-06:14/2	05:30
	17:19	18:14	19:02		20:53		21:39		22:05
24	08:35	07:42	06:41	07:03-07:09/6	06:34	06:57-07:00/3	05:44	06:11-06:13/2	05:30
	17:20	18:16	19:04		20:55		21:41		22:05
25	08:33	07:40	06:39	07:01-07:08/7	06:32	06:55-07:00/5	05:43		05:30
	17:22	18:17	19:05		20:56		21:42		22:05
26	08:32	07:38	06:37	07:01-07:06/5	06:30	06:53-06:59/6	05:42		05:31
	17:24	18:19	19:07		20:58		21:43		22:05
27	08:31	07:36	06:34		06:28	06:53-06:57/4	05:41		05:31
	17:26	18:21	19:09		21:00		21:45		22:05
28	08:30	07:34	06:32		06:26		05:40		05:32
	17:27	18:23	19:10		21:01		21:46		22:05
29	08:28		07:30		06:24		05:39		05:32
	17:29		20:12		21:03		21:47		22:05
30	08:27		07:28		06:22		05:38		05:33
	17:31		20:14		21:04		21:48		22:04
31	08:25		07:25				05:37		
	17:33		20:15				21:49		
Potential sun hours	262	279	367		415		482		495
Sum of minutes with flicker	0	0	24		58		7		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10		06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12		07:00		07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02		07:49	07:42	08:30
	22:03		21:29		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03		07:51	07:43	08:31
	22:03		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05		07:52	07:45	08:33
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06	07:32-07:33/1	07:54	07:47	08:34
	22:02		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08	07:33-07:34/1	07:56	07:49	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11		07:59	07:52	08:37
	22:00		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:39/1	08:01	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14		08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16		08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45		06:29		07:17		08:06	07:59	08:41
	21:56		21:10		20:04		18:57	17:00	16:38
15	05:46		06:30		07:19		08:07	08:01	08:42
	21:55		21:09		20:02		18:54	16:58	16:38
16	05:47		06:32	07:00-07:05/5	07:20		08:09	08:02	08:43
	21:54		21:07		19:59		18:52	16:57	16:38
17	05:48		06:33	07:00-07:05/5	07:22	07:50-07:54/4	08:11	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50		06:35	07:02-07:07/5	07:24	07:48-07:55/7	08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36	07:03-07:06/3	07:25	07:50-07:56/6	08:14	08:07	08:45
	21:51		21:01		19:52		18:46	16:53	16:39
20	05:52	06:21-06:23/2	06:38	07:05-07:06/1	07:27	07:52-07:57/5	08:16	08:09	08:46
	21:50		20:59		19:50		18:44	16:52	16:39
21	05:53	06:23-06:25/2	06:40		07:28	07:53-07:56/3	08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55	06:24-06:26/2	06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56	06:25-06:26/1	06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46	07:16-07:21/5	07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47	07:14-07:23/9	07:36		07:26	08:19	08:49
	21:42		20:46		19:37		17:32	16:46	16:42
27	06:02		06:49	07:15-07:23/8	07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51	07:17-07:23/6	07:39		07:29	08:22	08:49
	21:40		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52	07:18-07:23/5	07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54	07:20-07:22/2	07:43		07:33	08:24	08:49
	21:37		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:23		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	9		54		28		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-08:53/3 17:35	07:32 18:25	07:23 20:17	06:20 06:44-06:47/3 21:06 06:53-07:23/30	05:36 21:50
2	08:49 16:49	08:22 08:48-08:52/4 17:36	07:30 18:26	07:21 20:19	06:18 06:42-06:46/4 21:08 06:53-07:22/29	05:35 21:51
3	08:49 16:50	08:21 08:46-08:51/5 17:38	07:28 18:28	07:19 20:20	06:16 06:41-06:46/5 21:09 06:53-07:22/29	05:35 21:52
4	08:49 16:51	08:19 08:45-08:50/5 17:40	07:26 18:30	07:16 20:22	06:14 06:39-06:44/5 21:11 06:53-07:22/29	05:34 21:53
5	08:49 16:52	08:18 08:43-08:49/6 17:42	07:23 18:32	07:14 20:23	06:13 06:53-07:21/28 21:13	05:33 21:54
6	08:49 16:54	08:16 08:41-08:47/6 17:43	07:21 18:33	07:12 20:25	06:11 06:53-07:20/27 21:14	05:33 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:39-08:47/8 17:45	07:19 18:35	07:10 20:27	06:09 06:54-07:20/26 21:16	05:32 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:38-08:48/10 17:47	07:17 18:37	07:08 20:28	06:07 06:32-06:33/1 21:17 06:55-07:19/24	05:32 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:36-08:48/12 17:49	07:15 18:38	07:05 07:28-07:29/1 20:30	06:06 06:31-06:34/3 21:19 06:56-07:18/22	05:31 21:58
10	08:47 09:16-09:21/5 16:59	08:09 08:34-08:48/14 17:51	07:13 18:40	07:03 20:32	06:04 06:29-06:34/5 21:20 06:57-07:17/20	05:31 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:32-08:47/15 17:53	07:10 18:42	07:01 20:33	06:02 06:28-06:36/8 21:22 06:58-07:16/18	05:30 21:59
12	08:46 09:15-09:23/8 17:02	08:06 08:33-08:46/13 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:36/10 21:23 06:59-07:14/15	05:30 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:34-08:45/11 17:56	07:06 07:28-07:29/1 18:45	06:57 20:37	05:59 06:25-06:37/12 21:25 07:02-07:12/10	05:30 22:01
14	08:44 09:13-09:24/11 17:04	08:02 08:35-08:43/8 17:58	07:04 07:26-07:30/4 18:47	06:54 20:38	05:58 06:23-06:36/13 21:27	05:30 22:01
15	08:44 09:12-09:24/12 17:06	08:00 18:00	07:01 07:24-07:31/7 18:49	06:52 20:40	05:56 06:22-06:37/15 21:28	05:30 22:02
16	08:43 09:11-09:25/14 17:08	07:58 18:02	06:59 07:22-07:32/10 18:50	06:50 20:42	05:55 06:21-06:37/16 21:29	05:29 22:02
17	08:42 09:10-09:25/15 17:09	07:56 18:03	06:57 07:19-07:31/12 18:52	06:48 20:43	05:53 06:19-06:36/17 21:31	05:29 22:03
18	08:41 09:09-09:25/16 17:11	07:54 18:05	06:55 07:17-07:31/14 18:54	06:46 20:45	05:52 06:19-06:36/17 21:32	05:29 22:03
19	08:40 09:10-09:25/15 17:12	07:52 18:07	06:52 07:15-07:31/16 18:55	06:44 20:47	05:51 06:19-06:36/17 21:34	05:29 22:04
20	08:39 09:11-09:25/14 17:14	07:50 18:09	06:50 07:16-07:30/14 18:57	06:42 07:08-07:13/5 20:48	05:49 06:20-06:36/16 21:35	05:29 22:04
21	08:38 09:11-09:24/13 17:16	07:49 18:10	06:48 07:16-07:27/11 18:59	06:40 07:04-07:17/13 20:50	05:48 06:19-06:35/16 21:37	05:30 22:04
22	08:37 09:12-09:24/12 17:17	07:46 18:12	06:46 07:18-07:25/7 19:00	06:38 07:01-07:19/18 20:51	05:47 06:20-06:35/15 21:38	05:30 22:04
23	08:36 09:14-09:23/9 17:19	07:44 18:14	06:43 07:06-07:08/2 19:02	06:36 06:59-07:20/21 20:53	05:45 06:21-06:34/13 21:39	05:30 22:05
24	08:35 09:15-09:21/6 17:21	07:42 18:16	06:41 07:04-07:07/3 19:04	06:34 06:58-07:21/23 20:55	05:44 06:22-06:33/11 21:41	05:30 22:05
25	08:33 17:22	07:40 18:18	06:39 07:01-07:05/4 19:05	06:32 06:56-07:22/26 20:56	05:43 06:23-06:32/9 21:42	05:31 22:05
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 06:55-07:22/27 20:58	05:42 06:25-06:30/5 21:43	05:31 22:05
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 06:54-07:22/28 21:00	05:41 21:45	05:31 22:05
28	08:30 17:27	07:34 18:23	06:32 19:10	06:26 06:54-07:22/28 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 20:12	06:24 06:54-07:23/29 21:03	05:39 21:47	05:32 22:04
30	08:27 17:31		07:28 07:50-07:51/1 20:14	06:22 06:46-06:47/1 21:04 06:54-07:23/29	05:38 21:48	05:33 22:04
31	08:25 08:51-08:52/1 17:33		07:25 07:48-07:49/1 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	176	120	107	249	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34		06:09	06:37-06:46/9	06:57		07:44		07:36	08:04-08:17/13	08:26	08:57-09:04/7
	22:04		21:33	07:09-07:25/16	20:33		19:25		17:21		16:42	
2	05:34		06:10	06:39-06:46/7	06:59		07:46		07:38	08:06-08:17/11	08:27	08:59-09:05/6
	22:04		21:32	07:07-07:26/19	20:31		19:23		17:19		16:41	
3	05:35		06:12	06:40-06:44/4	07:00	07:26-07:27/1	07:48		07:40	08:07-08:16/9	08:29	09:00-09:04/4
	22:03		21:30	07:07-07:28/21	20:29		19:21		17:17		16:41	
4	05:36		06:13	06:41-06:43/2	07:02		07:49		07:42	08:09-08:16/7	08:30	09:02-09:05/3
	22:03		21:29	07:05-07:28/23	20:26		19:19		17:16		16:40	
5	05:37		06:15	07:05-07:30/25	07:03		07:51		07:43	08:11-08:17/6	08:31	09:03-09:04/1
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:37		06:16	07:04-07:30/26	07:05		07:52		07:45	08:13-08:19/6	08:33	
	22:02		21:25		20:22		19:14		17:12		16:39	
7	05:38		06:18	07:04-07:31/27	07:06		07:54		07:47	08:15-08:20/5	08:34	
	22:01		21:23		20:20		19:12		17:10		16:39	
8	05:39		06:19	07:03-07:31/28	07:08		07:56		07:49	08:17-08:22/5	08:35	
	22:01		21:22		20:18		19:10		17:09		16:39	
9	05:40		06:21	06:49-06:54/5	07:10		07:57		07:50	08:19-08:23/4	08:36	
	22:00		21:20	07:02-07:31/29	20:15		19:07		17:07		16:38	
10	05:41		06:23	06:50-06:55/5	07:11		07:59		07:52	08:21-08:24/3	08:37	
	22:00		21:18	07:02-07:31/29	20:13		19:05		17:06		16:38	
11	05:42		06:24	06:51-06:55/4	07:13		08:01		07:54	08:23-08:24/1	08:38	
	21:59		21:16	07:01-07:31/30	20:11		19:03		17:04		16:38	
12	05:43		06:26	06:53-06:55/2	07:14		08:02		07:55		08:39	
	21:58		21:14	07:02-07:31/29	20:08		19:01		17:03		16:38	
13	05:44		06:27	06:54-06:55/1	07:16	07:41-07:42/1	08:04		07:57		08:40	
	21:57		21:12	07:01-07:31/30	20:06		18:59		17:01		16:38	
14	05:45		06:29	07:02-07:31/29	07:17		08:06		07:59		08:41	
	21:56		21:10		20:04		18:57		17:00		16:38	
15	05:46		06:30	07:01-07:30/29	07:19		08:07		08:01		08:42	
	21:55		21:09		20:02		18:54		16:58		16:38	
16	05:47		06:32	07:02-07:30/28	07:20		08:09		08:02		08:43	
	21:54		21:07		19:59		18:52		16:57		16:38	
17	05:49		06:33	07:02-07:29/27	07:22		08:11		08:04		08:44	
	21:53		21:05		19:57		18:50		16:56		16:38	
18	05:50	06:34-06:41/7	06:35	07:03-07:28/25	07:24	07:49-07:53/4	08:12		08:06	08:49-08:55/6	08:44	
	21:52		21:03		19:55		18:48		16:54		16:39	
19	05:51	06:32-06:42/10	06:37	07:04-07:26/22	07:25	07:50-07:54/4	08:14		08:07	08:48-08:57/9	08:45	
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52	06:32-06:44/12	06:38	07:05-07:26/21	07:27	07:52-07:55/3	08:16		08:09	08:47-08:59/12	08:46	
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54	06:31-06:45/14	06:40	07:06-07:23/17	07:28	08:05-08:10/5	08:17		08:11	08:47-09:00/13	08:46	
	21:49		20:57		19:48	07:53-07:54/1	18:42		16:51		16:40	
22	05:55	06:30-06:45/15	06:41	07:09-07:21/12	07:30	08:02-08:12/10	08:19		08:12	08:47-09:01/14	08:47	
	21:48		20:54		19:46		18:40		16:50		16:40	
23	05:56	06:30-06:46/16	06:43		07:32	08:00-08:13/13	08:21		08:14	08:46-09:01/15	08:47	
	21:46		20:52		19:43		18:38		16:49		16:41	
24	05:58	06:29-06:46/17	06:44		07:33	07:59-08:14/15	08:23		08:15	08:46-09:02/16	08:48	
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59	06:29-06:47/18	06:46		07:35	07:59-08:14/15	07:24		08:17	08:48-09:03/15	08:48	
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00	06:29-06:47/18	06:48		07:36	08:01-08:14/13	07:26		08:19	08:49-09:03/14	08:49	
	21:42		20:46		19:37		17:32		16:46		16:43	
27	06:02	06:30-06:47/17	06:49		07:38	08:03-08:14/11	07:28	08:07-08:10/3	08:20	08:51-09:04/13	08:49	
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:32-06:48/16	06:51		07:39	08:04-08:12/8	07:29	08:04-08:13/9	08:22	08:53-09:04/11	08:49	
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:33-06:47/14	06:52		07:41	08:06-08:12/6	07:31	08:03-08:15/12	08:23	08:54-09:04/10	08:49	
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:34-06:47/13	06:54		07:43	08:07-08:09/2	07:33	08:02-08:16/14	08:24	08:56-09:04/8	08:49	
	21:37	07:14-07:20/6	20:37		19:28		17:24		16:43		16:46	
31	06:07	06:36-06:47/11	06:55				07:35	08:02-08:17/15			08:49	
	21:35	07:11-07:23/12	20:35				17:23				16:47	
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker		216		581		112		53		226		21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:43/23	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06 19:41-20:01/20	21:50
2	08:49 09:20-09:43/23	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08 19:42-19:59/17	21:51
3	08:49 09:27-09:44/17	08:21	07:28	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:26/6	17:38	18:28	20:20	21:09 19:44-19:56/12	21:52
4	08:49 09:27-09:43/16	08:19	07:26	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:26/7	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:26/7	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:26/8	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:26/8	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:40-07:42/2	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:26/9	17:47	18:37	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-07:43/5	07:05 19:51-19:59/8	06:06 06:35-07:06/31	05:31
	16:57 09:19-09:26/7	17:49	18:38	20:30 08:19-09:09/50	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-07:41/6	07:03 19:47-20:03/16	06:04 06:36-07:05/29	05:31
	16:59 09:20-09:25/5	17:51	18:40	20:32 08:20-09:08/48	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-07:41/8	07:01 19:43-20:04/21	06:03 06:38-07:05/27	05:31
	17:00 09:22-09:23/1	17:53	18:42	20:33 08:19-09:06/47	21:22	21:59
12	08:46	08:06	07:08 07:31-07:39/8	06:59 19:41-20:06/25	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44	20:35 08:20-09:05/45	21:23	22:00
13	08:45	08:04	07:06	06:57 19:40-20:07/27	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37 08:21-09:03/42	21:25	22:01
14	08:44	08:02 08:26-08:30/4	07:04	06:54 19:39-20:08/29	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38 08:22-09:02/40	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:50-07:57/7	06:52 19:38-20:09/31	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40 08:23-09:00/37	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:43-08:03/20	06:50 19:37-20:09/32	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42 08:25-08:58/33	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 19:36-20:09/33	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43 08:26-08:55/29	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 19:36-20:10/34	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45 08:28-08:53/25	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 19:35-20:10/35	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47 08:31-08:49/18	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 19:35-20:10/35	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48 08:37-08:43/6	21:35	22:04
21	08:38	07:49 08:14-08:35/21	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50 19:35-20:09/34	21:37	22:04
22	08:37	07:47 08:14-08:35/21	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51 19:35-20:09/34	21:38	22:04
23	08:36	07:44 08:14-08:34/20	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53 19:35-20:09/34	21:39	22:05
24	08:35	07:42 08:15-08:33/18	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55 19:35-20:08/33	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56 19:35-20:07/32	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58 19:35-20:07/32	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00 19:36-20:06/30	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01 19:36-20:04/28	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03 19:37-20:03/26	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05 19:39-20:03/24	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	217	211	767	1581	541	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:49-07:15/26	06:57 19:42-20:03/21	07:44 08:11-08:17/6	07:36	08:26 09:17-09:22/5
	22:04	21:33	20:33 08:19-09:06/47	19:25	17:21	16:42
2	05:34	06:10 06:48-07:16/28	06:59 19:45-20:01/16	07:46 08:11-08:19/8	07:38	08:27 09:17-09:25/8
	22:04	21:32	20:31 08:18-09:06/48	19:23	17:19	16:41 09:03-09:08/5
3	05:35	06:12 06:46-07:16/30	07:00 19:49-19:57/8	07:48 08:12-08:19/7	07:40	08:29 09:16-09:26/10
	22:03	21:30	20:29 08:17-09:07/50	19:21	17:17	16:41 09:02-09:09/7
4	05:36	06:13 06:45-07:15/30	07:02 08:16-09:07/51	07:49 08:14-08:20/6	07:42	08:30 09:16-09:28/12
	22:03	21:29	20:26	19:19	17:16	16:40 09:02-09:11/9
5	05:37	06:15 06:45-07:16/31	07:03 08:15-09:08/53	07:51 08:16-08:20/4	07:43	08:31 09:15-09:28/13
	22:03	21:27	20:24	19:16	17:14	16:40 09:03-09:12/9
6	05:37	06:16 06:44-07:15/31	07:05 08:14-09:08/54	07:52 08:17-08:18/1	07:45	08:33 09:15-09:29/14
	22:02	21:25	20:22	19:14	17:12	16:39 09:04-09:12/8
7	05:38	06:18 06:46-07:16/30	07:06 08:14-09:08/54	07:54	07:47	08:34 09:16-09:31/15
	22:01	21:23	20:20	19:12	17:11	16:39 09:06-09:13/7
8	05:39	06:19 06:47-07:15/28	07:08 08:13-09:08/55	07:56	07:49	08:35 09:15-09:31/16
	22:01	21:22	20:18	19:10	17:09	16:39 09:07-09:14/7
9	05:40	06:21 06:49-07:15/26	07:10 08:13-09:08/55	07:57	07:50	08:36 09:15-09:32/17
	22:00	21:20 19:57-20:01/4	20:15	19:07	17:07	16:38 09:08-09:14/6
10	05:41	06:23 06:50-07:13/23	07:11 07:36-07:37/1	07:59	07:52	08:37 09:09-09:32/23
	22:00	21:18 19:53-20:06/13	20:13 08:12-09:08/56	19:05	17:06	16:38
11	05:42	06:24 06:51-07:12/21	07:13 07:38-07:42/4	08:01	07:54	08:38 09:10-09:33/23
	21:59	21:16 19:50-20:08/18	20:11 08:12-09:08/56	19:03	17:04	16:38
12	05:43	06:26 06:53-07:12/19	07:14 07:39-07:43/4	08:02	07:55	08:39 09:11-09:33/22
	21:58	21:14 19:49-20:10/21	20:09 08:11-09:07/56	19:01	17:03	16:38
13	05:44	06:27 06:54-07:10/16	07:16 07:41-07:44/3	08:04	07:57	08:40 09:12-09:34/22
	21:57	21:12 19:46-20:10/24	20:06 08:12-09:07/55	18:59	17:01	16:38
14	05:45	06:29 06:56-07:08/12	07:17 07:42-07:43/1	08:06 08:55-08:57/2	07:59	08:41 09:13-09:34/21
	21:56	21:10 19:46-20:12/26	20:04 08:11-09:06/55	18:57	17:00	16:38
15	05:46	06:30 06:57-07:08/11	07:19 08:11-09:06/55	08:07 08:51-09:02/11	08:01	08:42 09:14-09:35/21
	21:55	21:09 19:44-20:12/28	20:02	18:55	16:58	16:38
16	05:48	06:32 06:59-07:10/11	07:21 08:11-09:04/53	08:09 08:48-09:03/15	08:02	08:43 09:15-09:36/21
	21:54	21:07 19:43-20:13/30	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:10/10	07:22 08:12-09:04/52	08:11 08:47-09:04/17	08:04	08:44 09:16-09:36/20
	21:53	21:05 19:42-20:13/31	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:11/9	07:24 08:11-09:02/51	08:12 08:46-09:05/19	08:06	08:44 09:16-09:36/20
	21:52	21:03 19:42-20:14/32	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:10/7	07:25 08:12-09:02/50	08:14 08:45-09:06/21	08:07	08:45 09:17-09:37/20
	21:51	21:01 19:40-20:14/34	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:11/6	07:27 08:13-09:01/48	08:16 08:45-09:06/21	08:09	08:46 09:18-09:38/20
	21:50	20:59 19:40-20:14/34	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:10/4	07:28 08:14-08:59/45	08:17 08:44-09:05/21	08:11	08:46 09:18-09:38/20
	21:49	20:57 19:39-20:14/35	19:48	18:42	16:51	16:40
22	05:55 06:59-07:05/6	06:41 07:08-07:09/1	07:30 08:15-08:58/43	08:19 08:45-09:05/20	08:12	08:47 09:19-09:39/20
	21:48	20:54 19:39-20:14/35	19:46	18:40	16:50	16:40
23	05:56 06:56-07:07/11	06:43 19:39-20:13/34	07:32 08:16-08:56/40	08:21 08:47-09:05/18	08:14	08:47 09:19-09:39/20
	21:46	20:52 08:39-08:48/9	19:43 07:56-08:01/5	18:38	16:49	16:41
24	05:58 06:54-07:08/14	06:44 19:39-20:13/34	07:33 08:17-08:54/37	08:23 08:49-09:05/16	08:15	08:48 09:19-09:39/20
	21:45	20:50 08:35-08:54/19	19:41 07:58-08:02/4	18:36	16:48	16:41
25	05:59 06:54-07:10/16	06:46 19:38-20:12/34	07:35 08:18-08:51/33	07:24 07:51-08:04/13	08:17	08:48 09:20-09:40/20
	21:44	20:48 08:31-08:56/25	19:39 07:59-08:02/3	17:34	16:47	16:42
26	06:00 06:53-07:11/18	06:48 19:39-20:12/33	07:36 08:21-08:49/28	07:26 07:52-08:02/10	08:19	08:49 09:20-09:40/20
	21:42	20:46 08:29-08:59/30	19:37 08:01-08:02/1	17:32	16:46	16:43
27	06:02 06:52-07:12/20	06:49 19:39-20:11/32	07:38 08:24-08:46/22	07:28 07:54-08:01/7	08:20	08:49 09:20-09:41/21
	21:41	20:44 08:26-09:00/34	19:34	17:30	16:45	16:43
28	06:03 06:51-07:14/23	06:51 19:39-20:09/30	07:40 08:27-08:41/14	07:29 07:56-07:59/3	08:22	08:49 09:20-09:41/21
	21:40	20:42 08:25-09:02/37	19:32	17:28	16:44	16:44
29	06:05 06:50-07:14/24	06:52 19:40-20:09/29	07:41	07:31	08:23	08:49 09:20-09:41/21
	21:38	20:40 08:23-09:03/40	19:30	17:26	16:43	16:45
30	06:06 06:50-07:14/24	06:54 19:40-20:07/27	07:43	07:33	08:24	08:49 09:20-09:42/22
	21:37	20:37 08:22-09:04/42	19:28	17:25	16:43	16:46
31	06:07 06:50-07:15/25	06:55 19:41-20:05/24		07:35		08:49 09:20-09:42/22
	21:35	20:35 08:20-09:05/45		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	181	1333	1387	246	0	628

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:32-09:56/24	08:24	07:32 08:12-08:18/6	07:23	06:20 06:44-06:45/1	05:36 06:27-06:48/21
	16:48	17:35	18:25	20:17	21:06 06:47-06:53/6	21:50
2	08:49 09:33-09:57/24	08:22	07:30	07:21	06:18 06:42-06:44/2	05:35 06:28-06:49/21
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:33-09:58/25	08:21	07:28	07:19	06:16	05:35 06:28-06:48/20
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:33-09:57/24	08:19 08:57-09:04/7	07:26	07:16	06:14	05:34 06:29-06:47/18
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:34-09:58/24	08:18 08:53-09:08/15	07:24	07:14	06:13	05:33 06:30-06:47/17
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 09:34-09:58/24	08:16 08:51-09:10/19	07:21	07:12	06:11 06:36-06:38/2	05:33 06:30-06:46/16
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:35-09:59/24	08:14 08:49-09:11/22	07:19	07:10	06:09 06:34-06:37/3	05:32 06:31-06:47/16
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:35-09:58/23	08:13 08:48-09:13/25	07:17	07:08	06:07 06:32-06:36/4	05:32 06:31-06:46/15
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:37-09:59/22	08:11 08:47-09:14/27	07:15	07:05	06:06 06:31-06:43/12	05:31 06:33-06:45/12
	16:57	17:49	18:38	20:30	21:19	21:58
10	08:47 09:37-09:59/22	08:09 08:46-09:15/29	07:13 07:44-07:47/3	07:03	06:04 06:29-06:44/15	05:31 06:34-06:45/11
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:37-09:59/22	08:08 08:45-09:16/31	07:10 07:39-07:52/13	07:01 07:24-07:25/1	06:02 06:28-06:46/18	05:30 06:35-06:45/10
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:39-09:59/20	08:06 08:45-09:16/31	07:08 07:36-07:55/19	06:59 07:21-07:24/3	06:01 06:26-06:47/21	05:30 06:35-06:44/9
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 09:39-09:59/20	08:04 08:44-09:17/33	07:06 07:34-07:55/21	06:57 07:19-07:24/5	05:59 06:25-06:48/23	05:30 06:36-06:43/7
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:40-09:59/19	08:02 08:44-09:17/33	07:04 07:32-07:56/24	06:54 07:17-07:23/6	05:58 06:25-06:48/23	05:30 06:38-06:43/5
	17:04	17:58 08:26-08:28/2	18:47	20:38	21:27	22:01
15	08:44 09:41-09:58/17	08:00 08:43-09:17/34	07:01 07:31-07:57/26	06:52 07:15-07:21/6	05:56 06:25-06:49/24	05:30 06:39-06:42/3
	17:06	18:00 08:24-08:30/6	18:49	20:40	21:28	22:02
16	08:43 09:42-09:58/16	07:58 08:43-09:17/34	06:59 07:30-07:58/28	06:50	05:55 06:25-06:50/25	05:29
	17:08	18:02 08:22-08:31/9	18:50	20:42	21:30	22:02
17	08:42 09:44-09:57/13	07:56 08:43-09:17/34	06:57 07:29-07:58/29	06:48	05:53 06:24-06:49/25	05:29
	17:09	18:03 08:20-08:31/11	18:52	20:43	21:31	22:03
18	08:41 09:46-09:55/9	07:54 08:43-09:17/34	06:55 07:29-07:58/29	06:46	05:52 06:24-06:50/26	05:29
	17:11	18:05 08:18-08:32/14	18:54	20:45	21:32	22:03
19	08:40 09:50-09:53/3	07:53 08:44-09:16/32	06:52 07:28-07:58/30	06:44	05:51 06:24-06:50/26	05:29
	17:12	18:07 08:16-08:32/16	18:55	20:47	21:34	22:04
20	08:39	07:51 08:44-09:16/32	06:50 07:28-07:58/30	06:42	05:49 06:24-06:51/27	05:29
	17:14	18:09 08:14-08:31/17	18:57	20:48	21:35	22:04
21	08:38	07:49 08:45-09:15/30	06:48 07:28-07:56/28	06:40 07:03-07:05/2	05:48 06:23-06:50/27	05:30
	17:16	18:11 08:12-08:31/19	18:59	20:50	21:37	22:04
22	08:37	07:47 08:45-09:14/29	06:46 07:28-07:56/28	06:38 07:01-07:06/5	05:47 06:23-06:50/27	05:30
	17:17	18:12 08:10-08:30/20	19:00	20:51	21:38	22:04
23	08:36	07:45 08:46-09:13/27	06:43 07:28-07:55/27	06:36 06:59-07:06/7	05:45 06:24-06:50/26	05:30
	17:19	18:14 08:08-08:29/21	19:02	20:53	21:39	22:05
24	08:35	07:42 08:48-09:11/23	06:41 07:28-07:53/25	06:34 06:57-07:06/9	05:44 06:24-06:50/26	05:30
	17:21	18:16 08:07-08:26/19	19:04	20:55	21:41	22:05
25	08:33	07:40 08:49-09:10/21	06:39 07:29-07:52/23	06:32 06:55-07:06/11	05:43 06:24-06:50/26	05:31
	17:22	18:18 08:08-08:25/17	19:05	20:56	21:42	22:05
26	08:32	07:38 08:51-09:07/16	06:37 07:31-07:50/19	06:30 06:53-07:05/12	05:42 06:24-06:50/26	05:31
	17:24	18:19 08:08-08:24/16	19:07	20:58	21:43	22:05
27	08:31	07:36 08:55-09:04/9	06:34 07:32-07:48/16	06:28 06:51-07:04/13	05:41 06:25-06:50/25	05:31
	17:26	18:21 08:09-08:23/14	19:09	21:00	21:45	22:05
28	08:30	07:34 08:10-08:20/10	06:32 07:34-07:44/10	06:26 06:50-07:03/13	05:40 06:25-06:49/24	05:32 06:41-06:45/4
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24 06:48-07:02/14	05:39 06:26-06:50/24	05:32 06:40-06:46/6
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22 06:46-06:55/9	05:38 06:26-06:50/24	05:33 06:40-06:48/8
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25		05:37 06:27-06:49/22	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	375	838	434	116	560	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:24/1 20:33	07:44 08:14-08:34/20 19:25	07:36 08:16-08:44/28 17:21	08:26 09:19-09:41/22 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:17-08:32/15 19:23	07:38 08:17-08:44/27 17:19	08:27 09:20-09:42/22 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:19-08:28/9 19:21	07:40 08:17-08:42/25 17:17	08:29 09:20-09:42/22 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 19:19	07:42 08:19-08:41/22 17:16	08:30 09:20-09:43/23 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 19:16	07:43 08:21-08:39/18 17:14	08:31 09:20-09:44/24 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 19:14	07:45 08:23-08:37/14 17:12	08:33 09:20-09:44/24 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 19:12	07:47 08:27-08:33/6 17:11	08:34 09:21-09:45/24 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 09:21-09:45/24 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 17:07	08:36 09:21-09:46/25 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 09:22-09:46/24 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 09:22-09:46/24 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 19:01	07:56 17:03	08:39 09:22-09:47/25 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:44-08:52/8 18:59	07:57 17:01	08:40 09:23-09:47/24 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:42-08:54/12 18:57	07:59 17:00	08:41 09:23-09:48/25 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 09:25-09:38/13 18:54 08:41-08:56/15	08:01 16:58	08:42 09:24-09:48/24 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 09:22-09:39/17 18:52 08:39-08:56/17	08:02 16:57	08:43 09:25-09:49/24 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:39-08:56/17	08:04 16:56	08:44 09:25-09:50/25 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:39-08:59/20	08:06 16:55	08:45 09:25-09:49/24 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-09:00/20	08:07 16:53	08:45 09:26-09:50/24 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-09:02/20	08:09 16:52	08:46 09:27-09:51/24 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:06-07:11/5 20:57	07:28 08:14-08:41/27 19:48	08:17 09:15-09:46/31 18:42 08:43-09:01/18	08:11 16:51	08:46 09:27-09:51/24 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:08-07:10/2 20:55	07:30 08:13-08:42/29 19:46	08:19 09:14-09:46/32 18:40 08:45-09:02/17	08:12 16:50	08:47 09:28-09:52/24 16:40
23	05:56 06:34-07:00/26 21:46	06:43 20:52	07:32 08:12-08:41/29 19:43	08:21 09:14-09:47/33 18:38 08:47-09:02/15	08:14 09:26-09:28/2 16:49	08:48 09:28-09:52/24 16:41
24	05:58 06:34-07:00/26 21:45	06:44 20:50	07:33 08:12-08:41/29 19:41	08:23 09:14-09:47/33 18:36 08:49-09:02/13	08:15 09:23-09:32/9 16:48	08:48 09:28-09:52/24 16:41
25	05:59 06:34-07:01/27 21:44	06:46 20:48	07:35 08:11-08:40/29 19:39	07:24 08:14-08:47/33 17:34 07:51-08:02/11	08:17 09:22-09:35/13 16:47	08:48 09:29-09:53/24 16:42
26	06:00 06:34-07:00/26 21:42	06:48 20:46	07:36 08:11-08:40/29 19:37	07:26 08:14-08:47/33 17:32 07:53-08:01/8	08:19 09:21-09:36/15 16:46	08:49 09:29-09:53/24 16:43
27	06:02 06:34-07:00/26 21:41	06:49 20:44	07:38 08:12-08:40/28 19:34	07:28 08:13-08:46/33 17:30 07:54-07:59/5	08:20 09:20-09:37/17 16:45	08:49 09:29-09:54/25 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:23/6 20:42	07:40 08:12-08:38/26 19:32	07:29 08:13-08:46/33 17:28 07:56-07:57/1	08:22 09:20-09:39/19 16:44	08:49 09:30-09:54/24 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:24/6 20:40	07:41 08:13-08:38/25 19:30	07:31 08:14-08:46/32 17:26	08:23 09:20-09:39/19 16:43	08:49 09:30-09:55/25 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:25/5 20:38	07:43 08:13-08:36/23 19:28	07:33 08:14-08:46/32 17:24	08:25 09:20-09:41/21 16:43	08:49 09:31-09:55/24 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:24/3 20:35		07:35 08:15-08:45/30 17:23		08:49 09:31-09:56/25 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	195	390	751	255	744

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	08:50	10:08-10:30/22	08:24	09:00-09:29/29	07:32		07:23	07:48-07:54/6	06:20		05:36	21:09-21:19/10
	16:48		17:35		18:25		20:17		21:06		21:50	
2	08:49	10:09-10:30/21	08:22	09:00-09:29/29	07:30		07:21	07:51-08:00/9	06:18		05:36	21:08-21:19/11
	16:49		17:36		18:26		20:19	07:43-07:46/3	21:08		21:52	
3	08:49	10:10-10:30/20	08:21	08:59-09:29/30	07:28		07:19	07:41-08:03/22	06:16		05:35	21:08-21:21/13
	16:50		17:38		18:28		20:20		21:09		21:53	
4	08:49	10:10-10:29/19	08:19	09:00-09:30/30	07:26		07:16	07:39-08:06/27	06:15		05:34	21:07-21:21/14
	16:51		17:40		18:30		20:22		21:11		21:54	
5	08:49	10:12-10:30/18	08:18	09:00-09:30/30	07:24		07:14	07:37-08:07/30	06:13		05:33	21:07-21:23/16
	16:52		17:42		18:32		20:24		21:13		21:55	
6	08:49	10:12-10:29/17	08:16	09:00-09:30/30	07:21		07:12	07:34-08:07/33	06:11		05:33	21:07-21:23/16
	16:54		17:44		18:33		20:25		21:14		21:55	
7	08:48	10:14-10:28/14	08:14	09:00-09:30/30	07:19		07:10	07:32-08:08/36	06:09	06:34-06:35/1	05:32	06:01-06:02/1
	16:55		17:45		18:35		20:27		21:16		21:56	21:07-21:24/17
8	08:48	10:15-10:27/12	08:13	09:01-09:30/29	07:17		07:08	07:32-08:09/37	06:08	06:32-06:33/1	05:32	06:01-06:03/2
	16:56		17:47		18:37		20:28		21:17		21:57	21:06-21:24/18
9	08:47	10:18-10:26/8	08:11	09:01-09:30/29	07:15		07:05	07:33-08:09/36	06:06		05:31	06:00-06:03/3
	16:57		17:49		18:38		20:30	07:28-07:30/2	21:19		21:58	21:07-21:26/19
10	08:47		08:09	09:02-09:29/27	07:13		07:03	07:34-08:09/35	06:04		05:31	06:00-06:04/4
	16:59		17:51		18:40		20:32	07:26-07:31/5	21:20		21:59	21:07-21:27/20
11	08:46		08:08	09:02-09:28/26	07:10		07:01	07:37-08:09/32	06:03		05:30	06:00-06:04/4
	17:00		17:53		18:42		20:33	07:24-07:31/7	21:22		22:00	21:06-21:27/21
12	08:46		08:06	09:03-09:27/24	07:08		06:59	07:35-08:08/33	06:01		05:30	05:59-06:04/5
	17:02		17:54		18:44		20:35	07:21-07:30/9	21:24		22:00	21:06-21:27/21
13	08:45		08:04	09:04-09:25/21	07:06		06:57	07:35-08:08/33	05:59		05:30	05:59-06:05/6
	17:03		17:56		18:45		20:37	07:19-07:29/10	21:25		22:01	21:07-21:28/21
14	08:44		08:02	09:06-09:24/18	07:04		06:55	07:35-08:08/33	05:58		05:30	05:59-06:05/6
	17:05		17:58		18:47		20:38	07:17-07:28/11	21:27		22:01	21:07-21:29/22
15	08:44		08:00	09:08-09:21/13	07:01		06:52	07:35-08:07/32	05:56		05:30	05:59-06:05/6
	17:06		18:00		18:49		20:40	07:18-07:26/8	21:28		22:02	21:07-21:29/22
16	08:43		07:58	09:12-09:17/5	06:59		06:50	07:35-08:07/32	05:55		05:29	05:59-06:06/7
	17:08		18:02		18:50		20:42		21:30		22:02	21:07-21:30/23
17	08:42	09:10-09:12/2	07:56		06:57		06:48	07:36-08:06/30	05:53		05:29	05:59-06:06/7
	17:09		18:03		18:52		20:43		21:31		22:03	21:07-21:30/23
18	08:41	09:09-09:13/4	07:54		06:55		06:46	07:36-08:05/29	05:52		05:29	05:59-06:06/7
	17:11		18:05		18:54		20:45		21:32		22:03	21:07-21:30/23
19	08:40	09:08-09:14/6	07:53		06:52		06:44	07:07-07:09/2	05:51		05:29	05:59-06:06/7
	17:12		18:07		18:55		20:47	07:37-08:04/27	21:34		22:04	21:08-21:30/22
20	08:39	09:07-09:15/8	07:51		06:50		06:42	07:05-07:08/3	05:49		05:29	05:59-06:07/8
	17:14		18:09		18:57		20:48	07:38-08:02/24	21:35		22:04	21:08-21:30/22
21	08:38	09:05-09:15/10	07:49		06:48		06:40	07:03-07:06/3	05:48		05:30	05:59-06:07/8
	17:16		18:11		18:59		20:50	07:39-08:00/21	21:37		22:04	21:08-21:30/22
22	08:37	09:04-09:16/12	07:47		06:46		06:38	07:01-07:03/2	05:47		05:30	06:00-06:08/8
	17:17		18:12		19:00		20:51	07:40-07:58/18	21:38		22:04	21:08-21:30/22
23	08:36	09:03-09:17/14	07:45		06:43		06:36	06:59-07:03/4	05:45		05:30	06:00-06:07/7
	17:19		18:14		19:02		20:53	07:43-07:55/12	21:39		22:05	21:09-21:31/22
24	08:35	09:02-09:18/16	07:42		06:41		06:34	06:57-07:02/5	05:44		05:30	06:00-06:07/7
	17:21		18:16		19:04		20:55	07:48-07:49/1	21:41		22:05	21:08-21:31/23
25	08:33	09:00-09:21/21	07:40		06:39		06:32	06:55-07:02/7	05:43		05:31	06:01-06:08/7
	17:22		18:18		19:05		20:56		21:42		22:05	21:08-21:31/23
26	08:32	08:59-09:23/24	07:38		06:37		06:30	06:53-07:01/8	05:42		05:31	06:01-06:08/7
	17:24		18:19		19:07		20:58		21:43		22:05	21:09-21:32/23
27	08:31	08:57-09:24/27	07:36		06:34		06:28	06:51-07:00/9	05:41		05:31	06:02-06:09/7
	17:26		18:21		19:09		21:00		21:45		22:05	21:09-21:31/22
28	08:30	08:57-09:25/28	07:34		06:32	06:55-06:58/3	06:26	06:51-07:00/9	05:40		05:32	06:02-06:08/6
	17:27		18:23		19:10		21:01		21:46		22:05	21:10-21:32/22
29	08:28	08:57-09:26/29			07:30	07:52-07:57/5	06:24	06:53-06:58/5	05:39		05:32	06:03-06:09/6
	17:29				20:12		21:03		21:47		22:05	21:10-21:31/21
30	08:27	08:58-09:27/29			07:28	07:50-07:56/6	06:22		05:38	21:12-21:17/5	05:33	06:03-06:08/5
	17:31				20:14		21:05		21:48		22:04	21:10-21:32/22
31	08:25	08:58-09:28/30			07:25	07:48-07:56/8			05:37	21:10-21:18/8		
	17:33				20:15				21:49			
Potential sun hours	262		279		367		415		482		495	
Sum of minutes with flicker	411		400		22		740		15		737	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26
	22:04 21:10-21:31/21	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27
	22:04 21:11-21:31/20	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 10:01-10:09/8
	22:03 21:12-21:31/19	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 10:01-10:12/11
	22:03 21:12-21:31/19	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15 06:43-06:44/1	07:03 07:29-08:05/36	07:51	07:43 08:29-09:00/31	08:31 09:59-10:13/14
	22:03 21:12-21:30/18	21:27	20:24	19:16	17:14	16:40
6	05:37 21:13-21:30/17	06:16 06:44-06:45/1	07:05 07:30-08:03/33	07:52	07:45 08:30-09:00/30	08:33 09:59-10:15/16
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:14-21:29/15	06:18	07:06 07:32-08:02/30	07:54	07:47 08:30-09:00/30	08:34 09:59-10:17/18
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 21:14-21:29/15	06:19	07:08 07:33-08:00/27	07:56	07:49 08:30-09:00/30	08:35 09:59-10:17/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:15-21:28/13	06:21	07:10 07:35-07:58/23	07:57	07:50 08:31-09:00/29	08:36 09:58-10:18/20
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 21:16-21:28/12	06:23	07:11 07:43-07:54/11	07:59	07:52 08:31-09:00/29	08:37 09:58-10:19/21
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 21:17-21:27/10	06:24	07:13 07:40-07:46/6	08:01	07:54 08:30-09:00/30	08:38 09:58-10:20/22
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 21:18-21:27/9	06:26	07:14 07:39-07:47/8	08:02	07:56 08:29-08:58/29	08:39 09:58-10:20/22
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 21:20-21:26/6	06:27	07:16 07:41-07:48/7	08:04	07:57 08:29-08:58/29	08:40 09:58-10:21/23
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 21:23-21:25/2	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 08:29-08:57/28	08:41 09:59-10:22/23
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30 06:57-07:07/10	07:19 07:44-07:47/3	08:07	08:01 08:30-08:57/27	08:42 09:59-10:23/24
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:45-07:46/1	08:09	08:02 08:32-08:56/24	08:43 09:59-10:24/25
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:08/8	07:22	08:11	08:04 08:34-08:55/21	08:44 10:00-10:24/24
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:08/6	07:24	08:12	08:06 08:36-08:52/16	08:45 10:00-10:24/24
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:08/5	07:25	08:14	08:07 08:37-08:51/14	08:45 10:00-10:25/25
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:09/4	07:27	08:16	08:09 08:39-08:51/12	08:46 10:01-10:26/25
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28	08:17	08:11 08:41-08:51/10	08:46 10:01-10:26/25
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30	08:19	08:12 08:43-08:51/8	08:47 10:02-10:27/25
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14 08:44-08:50/6	08:47 10:02-10:27/25
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33	08:23	08:15 08:46-08:50/4	08:48 10:02-10:27/25
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35	07:24	08:17 08:48-08:50/2	08:48 10:04-10:28/24
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36	07:26 08:41-08:49/8	08:19	08:49 10:04-10:28/24
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38	07:28 08:37-08:51/14	08:20	08:49 10:04-10:29/25
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22	08:49 10:05-10:29/24
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23	08:49 10:05-10:29/24
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25	08:49 10:06-10:29/23
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 10:07-10:29/22
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	212	431	347	114	555	629

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:49	08:24		07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34		18:25		20:17		21:06		21:50	
2	08:49	08:22		07:30		07:21		06:18		05:35	06:04-06:14/10
	16:49	17:36		18:26		20:18		21:08		21:51	
3	08:49	08:21		07:28		07:19		06:16		05:35	06:03-06:14/11
	16:50	17:38		18:28		20:20		21:09		21:52	
4	08:49	08:19		07:26		07:16		06:14		05:34	06:02-06:14/12
	16:51	17:40		18:30		20:22		21:11		21:53	
5	08:49	08:18		07:23	07:46-07:47/1	07:14		06:13		05:33	06:02-06:14/12
	16:52	17:42		18:31		20:23		21:13		21:54	
6	08:49	08:16		07:21	07:44-07:47/3	07:12		06:11		05:33	06:01-06:14/13
	16:53	17:43		18:33		20:25		21:14		21:55	
7	08:48	08:14		07:19	07:42-07:47/5	07:10		06:09		05:32	06:01-06:14/13
	16:55	17:45		18:35		20:27		21:16		21:56	
8	08:48	08:13		07:17	07:40-07:47/7	07:07		06:07		05:32	06:00-06:14/14
	16:56	17:47		18:37		20:28		21:17		21:57	
9	08:47	08:11		07:15	07:37-07:46/9	07:05		06:06		05:31	06:00-06:14/14
	16:57	17:49		18:38		20:30		21:19		21:58	
10	08:47	08:09		07:12	07:35-07:45/10	07:03		06:04		05:31	06:00-06:14/14
	16:59	17:51		18:40		20:32		21:20		21:59	
11	08:46	08:07		07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52		18:42		20:33		21:22		21:59	
12	08:46	08:06		07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54		18:43		20:35		21:23		22:00	
13	08:45	08:04		07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:44	08:02	08:26-08:27/1	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58		18:47		20:38		21:26		22:01	
15	08:44	08:00	08:24-08:27/3	07:01		06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	08:22-08:27/5	06:59		06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01		18:50		20:42		21:29		22:02	
17	08:42	07:56	08:20-08:26/6	06:57		06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03		18:52		20:43		21:31		22:03	
18	08:41	07:54	08:18-08:25/7	06:55		06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05		18:54		20:45		21:32		22:03	
19	08:40	07:52	08:17-08:24/7	06:52	07:15-07:16/1	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07		18:55		20:46		21:34		22:04	
20	08:39	07:50		06:50	07:13-07:16/3	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09		18:57		20:48		21:35		22:04	
21	08:38	07:48		06:48	07:10-07:15/5	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10		18:59		20:50		21:37		22:04	
22	08:37	07:46		06:46	07:08-07:15/7	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12		19:00		20:51		21:38		22:04	
23	08:36	07:44		06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14		19:02		20:53		21:39		22:05	
24	08:35	07:42		06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16		19:04		20:55		21:41		22:05	
25	08:33	07:40		06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18		19:05		20:56		21:42		22:05	
26	08:32	07:38		06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19		19:07		20:58		21:43		22:05	
27	08:31	07:36		06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34		06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29			20:12		21:03		21:47		22:04	
30	08:27			07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31			20:14		21:04		21:48		22:04	
31	08:25			07:25				05:37	06:05-06:13/8		
	17:33			20:15				21:49			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	29		83		23		33		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:19/15	06:09	06:57	07:44	07:36	08:26
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34 06:04-06:19/15	06:10	06:58	07:46 08:14-08:22/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:19/14	06:12	07:00	07:47 08:12-08:23/11	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:20/14	06:13	07:02	07:49 08:14-08:24/10	07:42	08:30
	22:03	21:29	20:26	19:18	17:15	16:40
5	05:36 06:06-06:19/13	06:15	07:03	07:51 08:16-08:24/8	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:20/13	06:16	07:05	07:52 08:17-08:23/6	07:45	08:32
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:20/12	06:18	07:06	07:54 08:19-08:23/4	07:47	08:34
	22:01	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:21/12	06:19	07:08	07:56 08:21-08:23/2	07:49	08:35
	22:01	21:22	20:17	19:10	17:09	16:39
9	05:40 06:10-06:21/11	06:21	07:09	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:21/10	06:22	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:22/9	06:26	07:14	08:02	07:55	08:39
	21:58	21:14	20:08	19:01	17:03	16:38
13	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:22/7	06:29	07:17	08:06	07:59	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:22/6	06:30	07:19	08:07	08:01	08:42
	21:55	21:08	20:02	18:54	16:58	16:38
16	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:21/3	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:21/2	06:35	07:24	08:12	08:06	08:44
	21:52	21:03	19:55	18:48	16:54	16:38
19	05:51	06:36	07:25 07:51-07:58/7	08:14	08:07	08:45
	21:51	21:01	19:52	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-08:00/8	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 07:53-08:00/7	08:17	08:11	08:46
	21:49	20:56	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 07:55-08:01/6	08:19	08:12	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:15/6	07:31 07:56-08:00/4	08:21 08:47-08:55/8	08:14	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:57	06:44 07:11-07:17/6	07:33 07:58-07:59/1	08:22 08:49-08:56/7	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 07:12-07:17/5	07:35	07:24 07:51-07:57/6	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:47 07:14-07:18/4	07:36	07:26 07:53-07:57/4	08:18	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02	06:49 07:15-07:17/2	07:38	07:28 07:54-07:57/3	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:39	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:04	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:24	08:49
	21:37	20:37	19:27	17:24	16:43	16:46
31	06:07	06:55		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	178	23	33	77	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:16/1	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:16/4	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50 07:17-07:18/1	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	9	16	0	1	22	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:52-07:04/12	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06 06:44-06:50/6	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:54-07:01/7	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08 06:42-06:48/6	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:47/7	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:40-06:46/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:56/7	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:57/7	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 07:02-07:11/9	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16 06:51-06:57/6	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 07:00-07:13/13	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14 06:53-06:58/5	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-07:14/20	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-07:15/19	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30 06:57-07:15/18	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32 06:59-07:16/17	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33 07:00-07:16/16	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35 07:02-07:16/14	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44 07:07-07:08/1	05:50	05:29 05:59-06:09/10	05:51	06:36 07:03-07:15/12	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42 07:05-07:09/4	05:49	05:29 05:59-06:10/11	05:52	06:38 07:05-07:15/10	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40 07:03-07:09/6	05:48	05:29 05:59-06:10/11	05:54	06:40 07:06-07:14/8	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38 07:01-07:10/9	05:47	05:30 06:00-06:11/11	05:55	06:41 07:08-07:14/6	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36 06:59-07:10/11	05:45	05:30 06:00-06:11/11	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34 06:57-07:10/13	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:09/14	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:09/16	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-07:08/17	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-07:07/18	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-07:07/19	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:51-07:06/15	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05 06:46-06:50/4	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	147	44	230	50	190	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-08:50/2 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:46-08:49/3 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:45-08:50/5 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:43-08:49/6 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:41-08:48/7 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:39-08:47/8 17:45	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:38-08:46/8 17:47	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:36-08:45/9 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:34-08:43/9 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:32-08:41/9 17:53	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 18:50	06:50 07:13-07:14/1 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 18:52	06:48 07:11-07:13/2 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 18:54	06:46 07:09-07:11/2 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 18:55	06:44 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:05-09:28/23 17:17	07:47 08:27-08:33/6 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:06-09:28/22 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:06-09:27/21 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:07-09:27/20 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 09:09-09:27/18 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 09:09-09:25/16 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 09:11-09:25/14 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 09:13-09:22/9 17:29	 	07:30 07:52-08:09/17 20:12	06:24 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 17:31	 	07:28 07:50-08:09/19 20:14	06:22 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 17:33	 	07:25 07:48-08:08/20 20:15	 	05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	321	234	105	82	108	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:34/30	06:09	06:57	07:44	07:36 08:04-08:13/9	08:26 08:57-09:04/7
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34 06:04-06:34/30	06:10	06:59	07:46	07:38 08:06-08:15/9	08:27 08:59-09:05/6
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:34/29	06:12	07:00	07:48	07:40 08:08-08:16/8	08:29 09:00-09:04/4
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:34/28	06:13	07:02	07:49	07:42 08:09-08:17/8	08:30 09:02-09:05/3
	22:03	21:29	20:26	19:19	17:16	16:40
5	05:37 06:06-06:33/27	06:15	07:03 07:29-07:32/3	07:51	07:43 08:11-08:18/7	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:33/26	06:16	07:05 07:30-07:32/2	07:52	07:45 08:13-08:19/6	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:33/25	06:18	07:06 07:32-07:33/1	07:54	07:47 08:15-08:20/5	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:33/24	06:19	07:08 07:45-07:56/11	07:56	07:49 08:17-08:20/3	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:33/23	06:21	07:10 07:43-07:58/15	07:57	07:50 08:19-08:20/1	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:33/22	06:23	07:11 07:36-07:59/23	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:32/20	06:24	07:13 07:38-08:00/22	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:32/19	06:26	07:14 07:39-07:59/20	08:02	07:55	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:31/17	06:27	07:16 07:41-08:00/19	08:04	07:57 08:45-08:54/9	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:30/15	06:29	07:17 07:42-07:59/17	08:06	07:59 08:43-08:57/14	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:29/13	06:30	07:19 07:44-07:59/15	08:07	08:01 08:42-08:58/16	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:17-06:28/11	06:32	07:20 07:45-07:58/13	08:09	08:02 08:42-09:00/18	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:26/8	06:33	07:22 07:47-07:58/11	08:11	08:04 08:41-09:01/20	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:23/4	06:35	07:24 07:48-07:56/8	08:12	08:06 08:40-09:01/21	08:44
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37	07:25 07:50-07:55/5	08:14	08:07 08:40-09:02/22	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-07:53/1	08:16 08:57-09:05/8	08:09 08:40-09:03/23	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 08:54-09:07/13	08:11 08:41-09:03/22	08:46
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:52-09:09/17	08:12 08:43-09:04/21	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:51-09:10/19	08:14 08:44-09:03/19	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:32/3	06:44	07:33	08:23 08:51-09:11/20	08:15 08:46-09:04/18	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:34/6	06:46 07:12-07:14/2	07:35	07:24 07:51-08:11/20	08:17 08:48-09:05/17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:35/6	06:48 07:14-07:16/2	07:36	07:26 07:53-08:11/18	08:19 08:49-09:04/15	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:36/6	06:49 07:15-07:16/1	07:38	07:28 07:54-08:11/17	08:20 08:51-09:05/14	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:37/5	06:51	07:39	07:29 07:56-08:11/15	08:22 08:53-09:05/12	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:37/4	06:52	07:41	07:31 07:58-08:10/12	08:23 08:54-09:05/11	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:37/3	06:54	07:43	07:33 08:00-08:10/10	08:24 08:56-09:05/9	08:49
	21:37	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:38/2	06:55		07:35 08:02-08:11/9		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	406	5	186	178	357	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 07:48/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23 07:45-07:48/3	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21 07:43-07:46/3	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00 07:26-07:28/2	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:28/1	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:31/1	06:07	05:32	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:30/2	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11 07:36-07:39/3	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13 07:38-07:41/3	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14 07:39-07:41/2	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45 06:15-06:19/4	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:29	05:46 06:16-06:20/4	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59 07:22-07:23/1	06:50	05:55	05:29	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57 07:19-07:21/2	06:48	05:53	05:29	05:48 06:18-06:21/3	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:21/2	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:22/1	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44 06:11-06:12/1	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43 06:10-06:12/2	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42 06:09-06:12/3	05:31	06:00	06:47	07:36 08:01-08:03/2	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41 06:08-06:11/3	05:31	06:02	06:49	07:38 08:03-08:05/2	07:28	08:20	08:49
	17:26	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40 06:07-06:11/4	05:32	06:03	06:51	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:10/4	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38 06:07-06:09/2	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25 07:48-07:50/2		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	5	9	19	0	20	0	16	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:09	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17 07:42-07:43/1	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30 07:52-07:53/1	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27 07:50-07:51/1	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	2	3	0	0	0	3	2	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	598	498	371	355	712	1.314	1.567	877	636	560	8.543

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:13/9	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51 06:17-06:33/16	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52 06:19-06:33/14	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:15/12	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53 06:19-06:33/14	22:04 06:30-06:33/3	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:15/13	05:36 06:06-06:23/17	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54 06:19-06:32/13	22:03 06:29-06:35/6	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:16/14	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55 06:20-06:32/12	22:03 06:28-06:36/8	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:16/15	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56 06:21-06:31/10	22:02 06:27-06:37/10	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:17/16	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56 06:22-06:31/9	22:02 06:27-06:38/11	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57 06:23-06:29/6	22:01 06:27-06:39/12	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58 06:24-06:29/5	22:00 06:26-06:40/14	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:18/18	05:41 06:11-06:22/11	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00 06:26-06:40/14	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:00-06:19/19	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59 06:26-06:41/15	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:21/8	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58 06:26-06:42/16	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:20/6	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57 06:25-06:42/17	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:30 06:00-06:19/19	05:45 06:15-06:19/4	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56 06:25-06:43/18	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:29/7	05:29 06:00-06:20/20	05:46 06:25-06:43/18	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:31/10	05:29 06:01-06:20/19	05:47 06:25-06:43/18	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:31/12	05:29 06:01-06:20/19	05:49 06:25-06:44/19	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52 06:18-06:32/14	05:29 06:01-06:20/19	05:50 06:24-06:44/20	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51 06:17-06:33/16	05:29 06:01-06:21/20	05:51 06:24-06:44/20	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:34/18	05:29 06:01-06:21/20	05:52 06:24-06:44/20	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:15-06:33/18	05:30 06:01-06:21/20	05:54 06:25-06:44/19	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47 06:15-06:34/19	05:30 06:02-06:22/20	05:55 06:25-06:44/19	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:15-06:34/19	05:30 06:02-06:22/20	05:56 06:25-06:44/19	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44 06:15-06:34/19	05:30 06:02-06:22/20	05:58 06:26-06:43/17	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43 06:15-06:34/19	05:31 06:03-06:22/19	05:59 06:28-06:43/15	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:15-06:34/19	05:31 06:03-06:22/19	06:00 06:29-06:42/13	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:15-06:34/19	05:31 06:03-06:22/19	06:02 06:30-06:41/11	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:15-06:34/19	05:32 06:03-06:23/20	06:03 06:32-06:41/9	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:07-06:08/1	05:32 06:03-06:22/19	06:05 06:33-06:39/6	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47 06:17-06:34/17	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:11/5	05:33 06:04-06:23/19	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48 06:17-06:34/17	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:12/7		06:07	06:55		07:35		08:50
	17:33		20:15		21:49 06:17-06:34/17		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	296	630	575	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

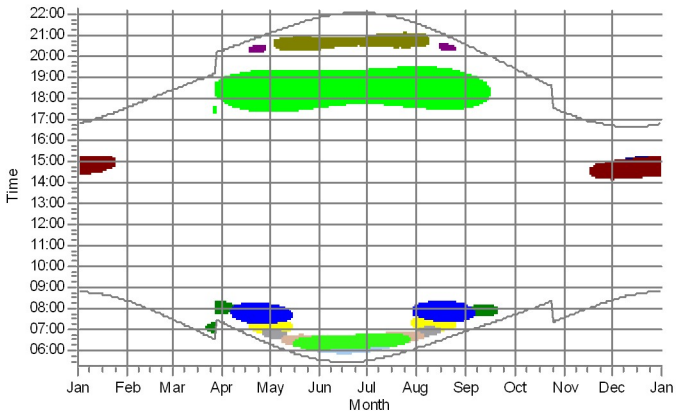
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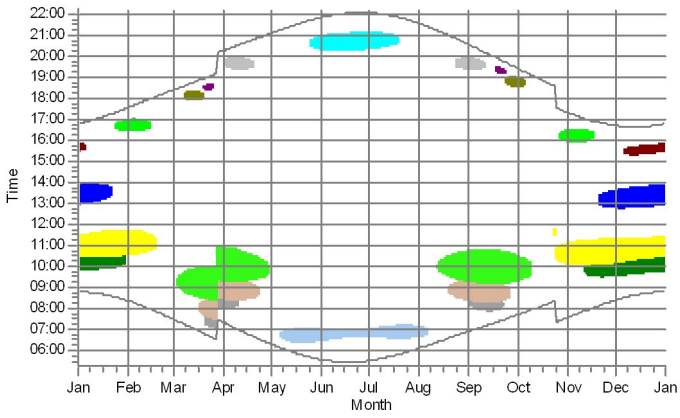
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

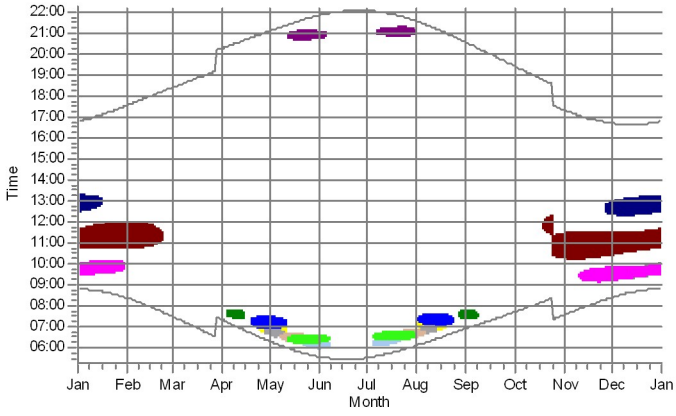
KLZ_WT21: KLZ_WT21 Armasteel



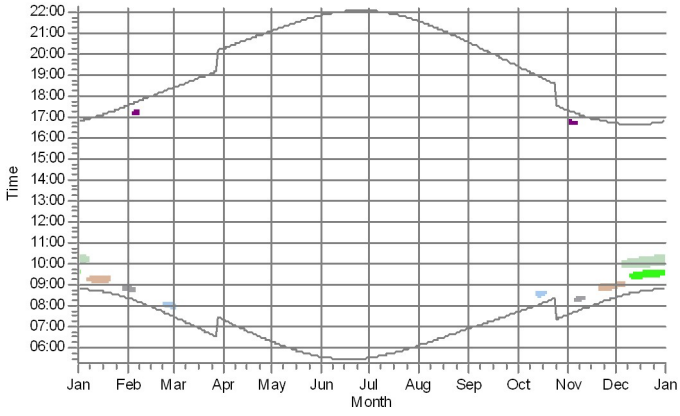
KLZ_WT22: KLZ_WT22 Magelaanstraat



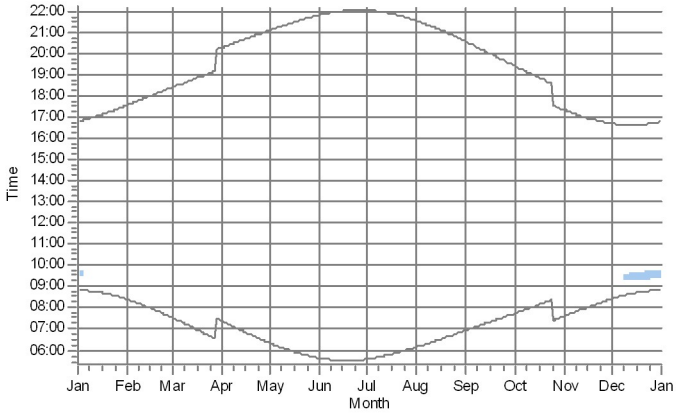
KLZ_WT23: KLZ_WT23 Stukw erkers



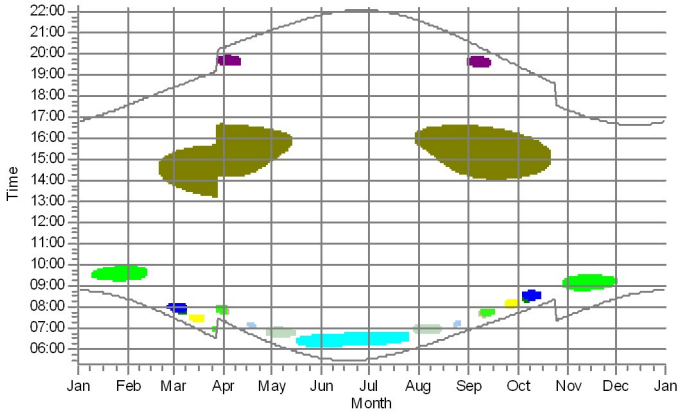
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 19



ATS_WT01: NORDEX N149/5.X-pow ercurve 5700 149.0 !O! hub: 156,5 m



CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

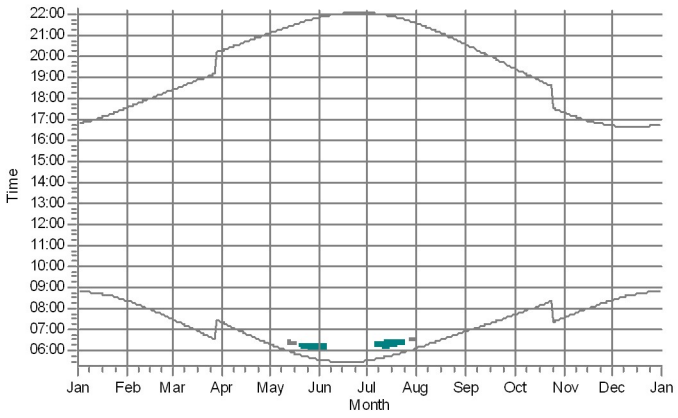
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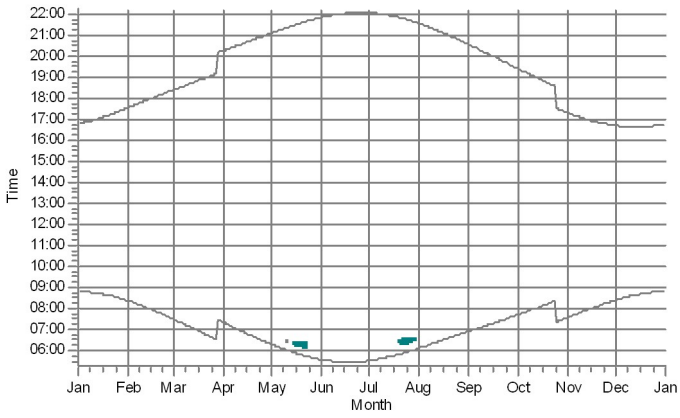
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

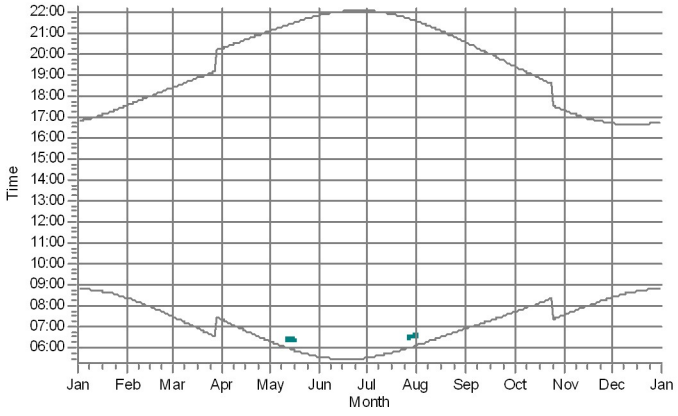
EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 20



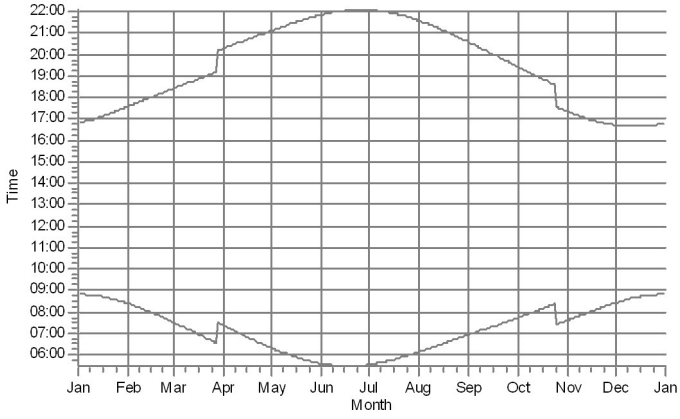
EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 20



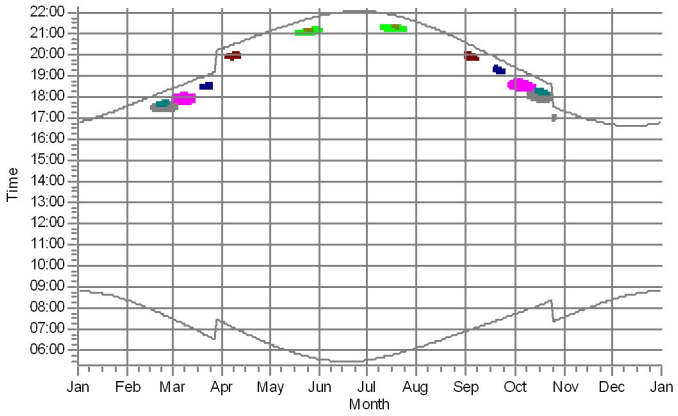
EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 20



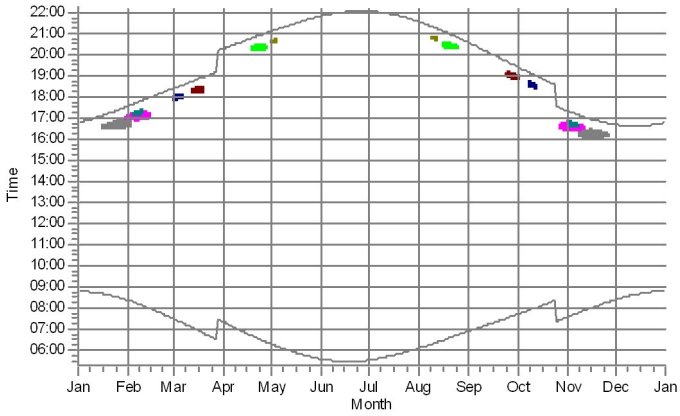
EAM_WT05: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 20



EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



Shadow receptors

- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent

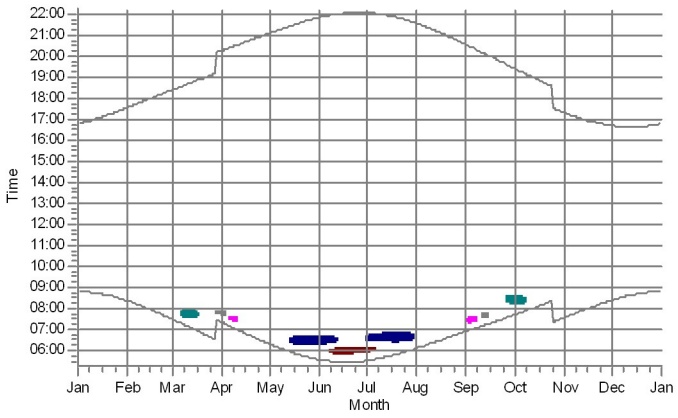
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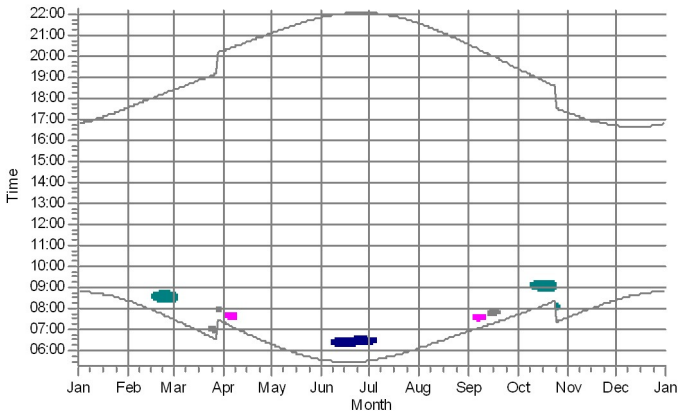
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

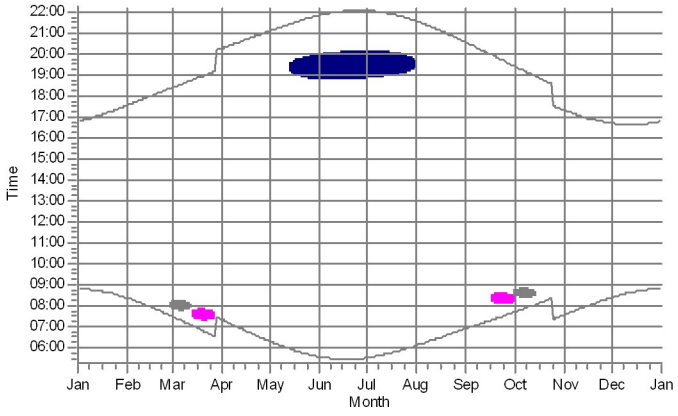
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



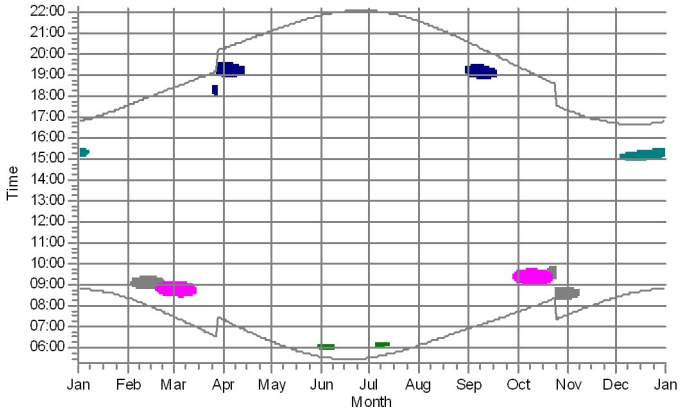
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



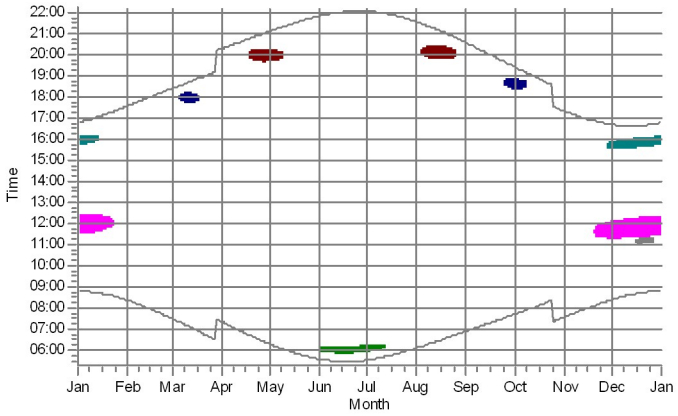
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



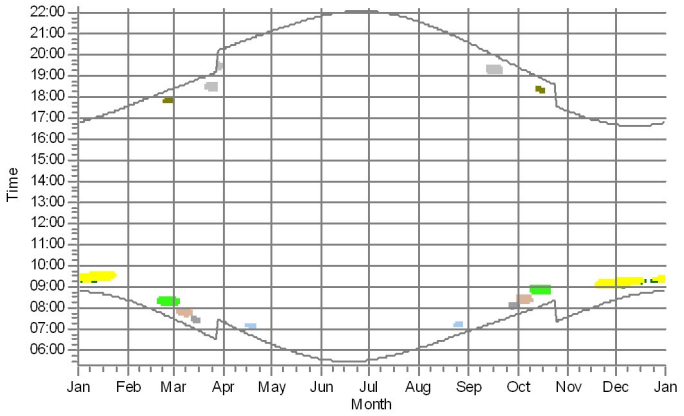
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

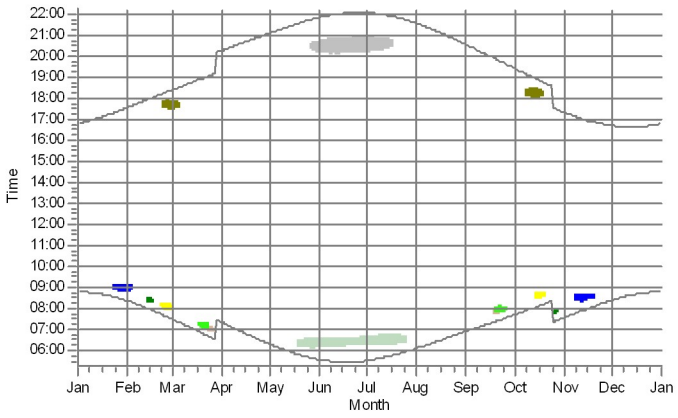
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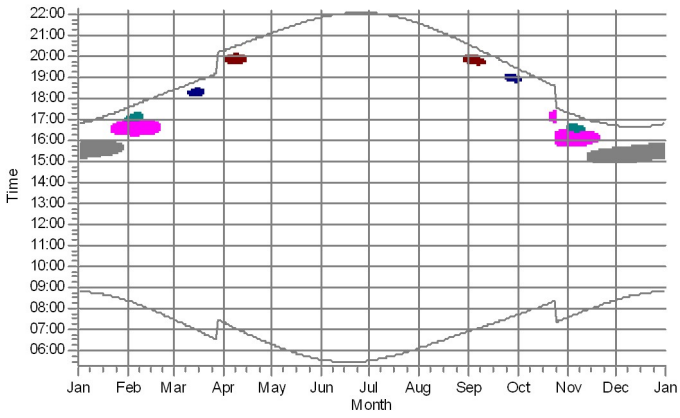
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

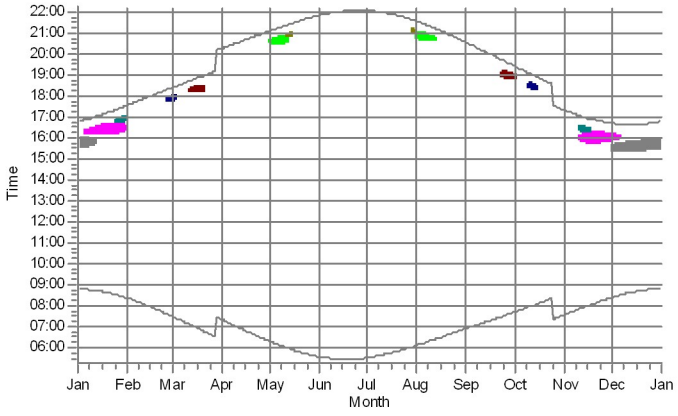
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



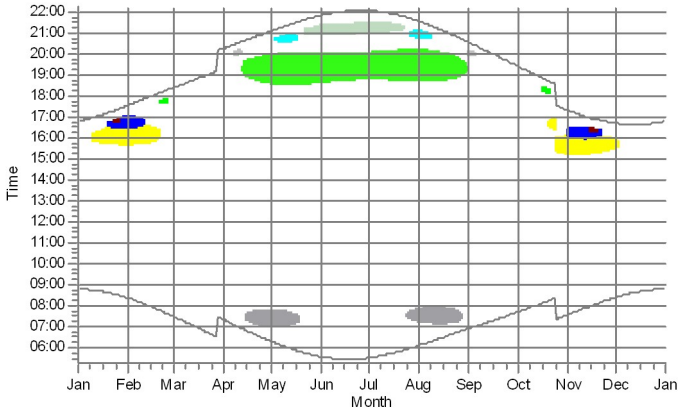
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m



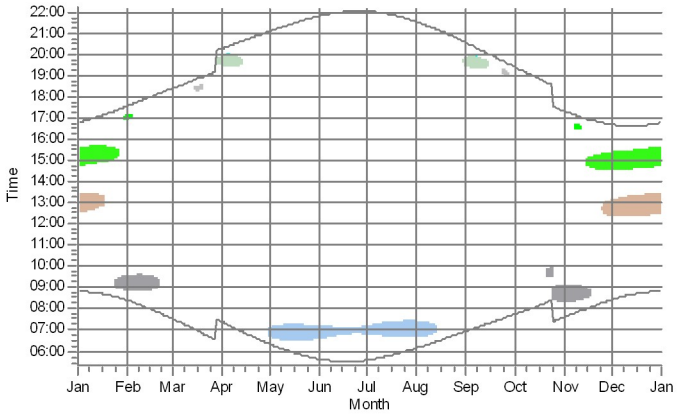
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



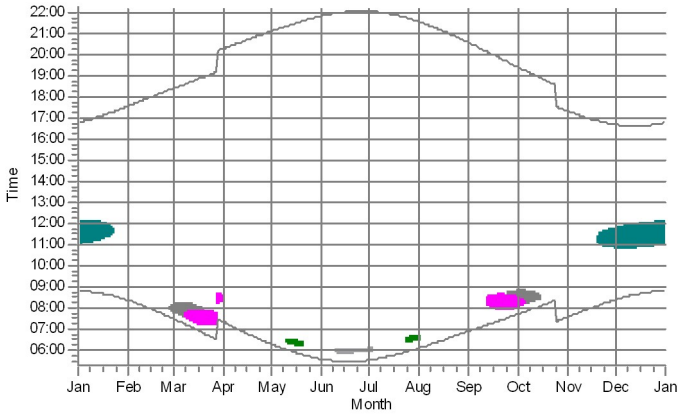
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m



KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

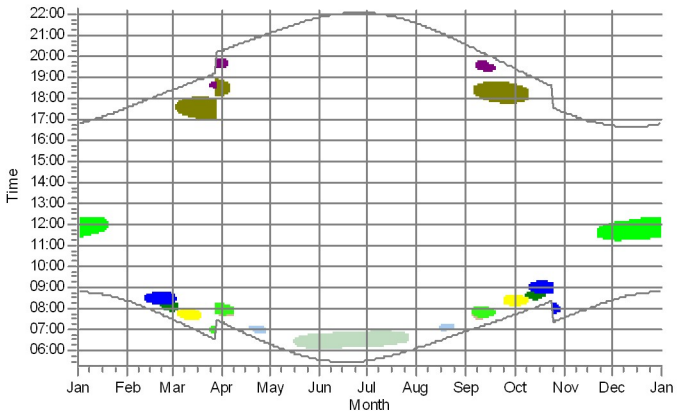
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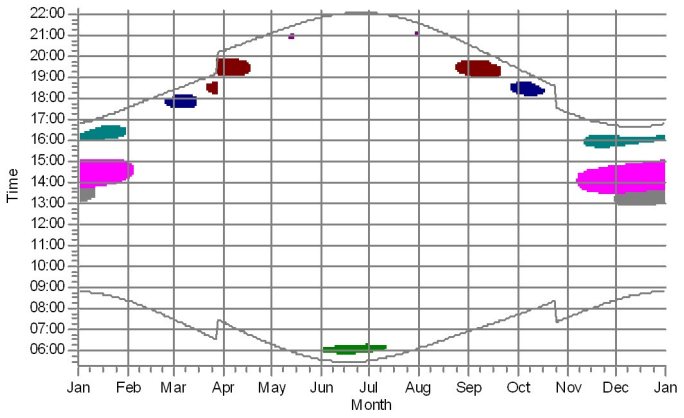
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

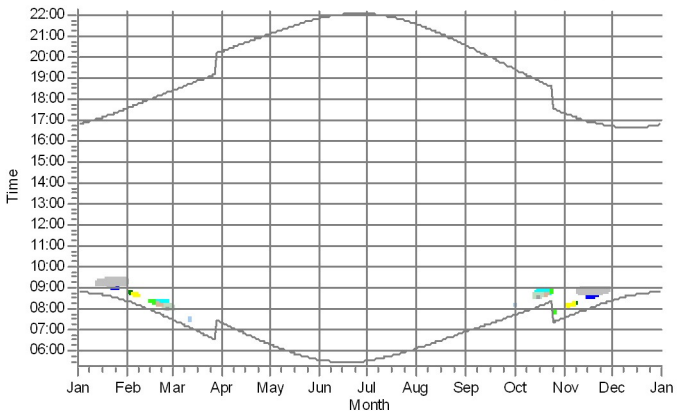
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 2



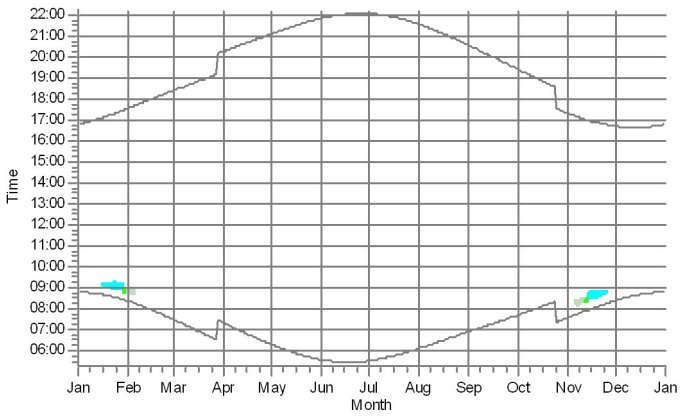
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



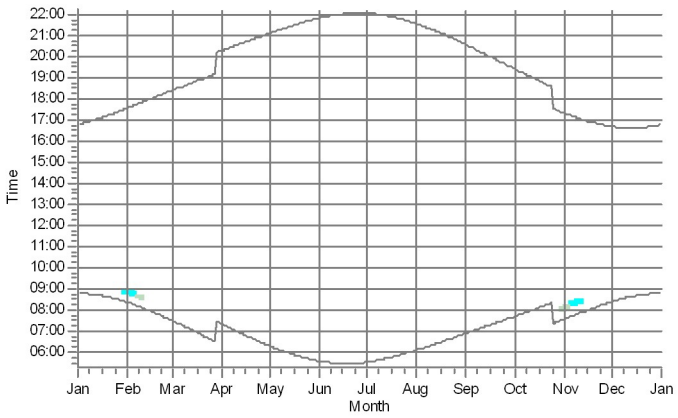
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 23



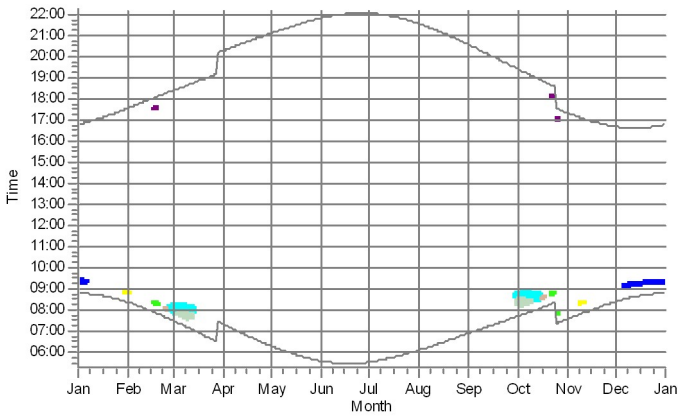
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



Shadow receptors

1: Hoogstraat 54, 9940 Evergem	7: Christoffel Columbuslaan 23, 9042 Gent	13: Doornzele Dries 107, 9940 Evergem
2: Pachtgoederen 2, 9940 Evergem	8: Christoffel Columbuslaan 23, 9042 Gent	14: Abdijdreef 2, 9940 Evergem
3: Pachtgoederen 2, 9940 Evergem	9: Willem van Rubroeckstraat 2, 9042 Gent	15: Hageland 41, 9940 Evergem
4: Ooievaarstraat 7, 9940 Evergem	10: Arbedkaai 3, 9042 Gent	16: Molendreef 5, 9940 Evergem
5: Speidamstraat 58, 9940 Evergem	11: Schuitstraat 1, 9042 Gent	17: Amerigo Vespuccistraat 2A, 9940 Evergem
6: Rimewegel 46, 9940 Evergem	12: Terdonkkaai 8, 9042 Gent	18: Pachtgoederen 1, 9940 Evergem

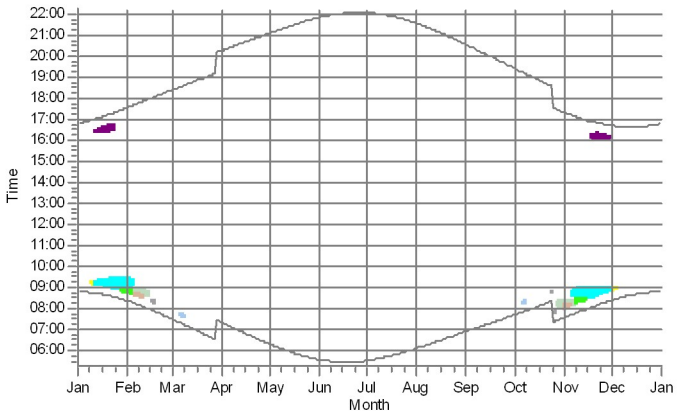
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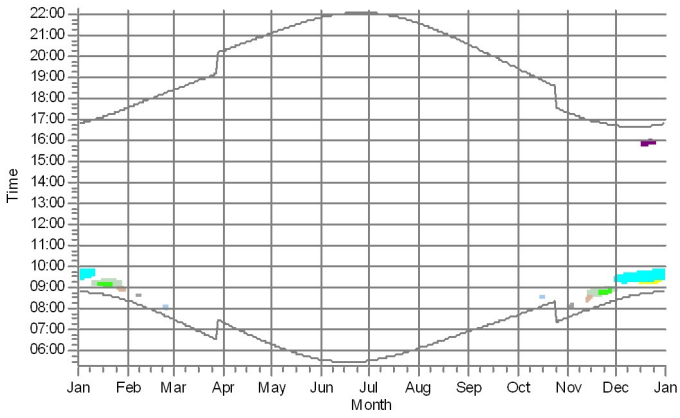
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

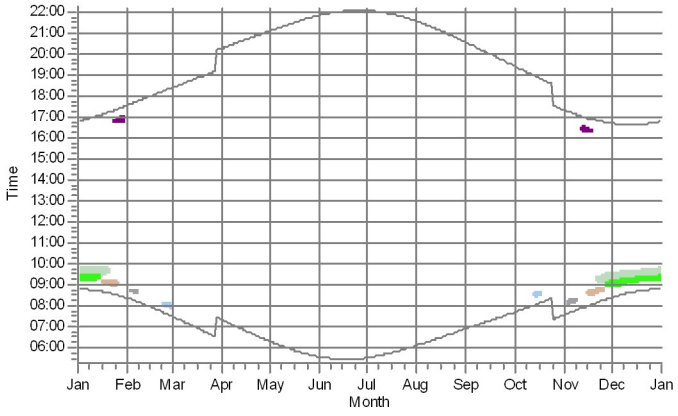
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 19



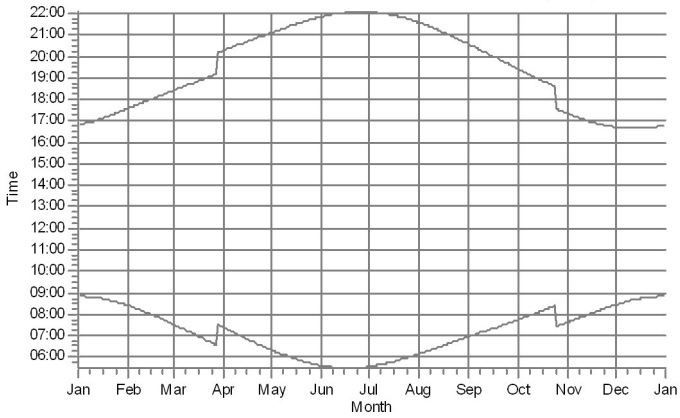
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 19



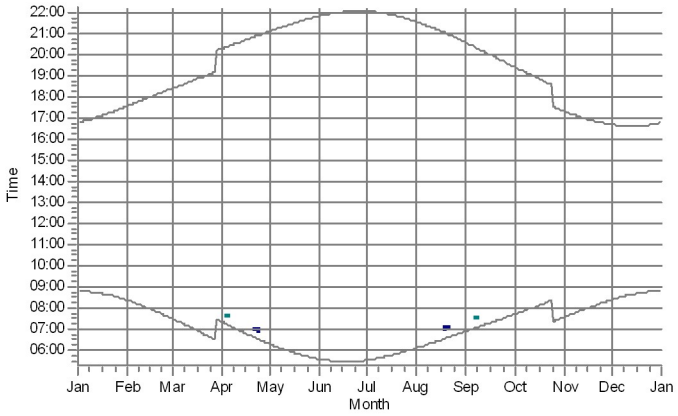
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 19



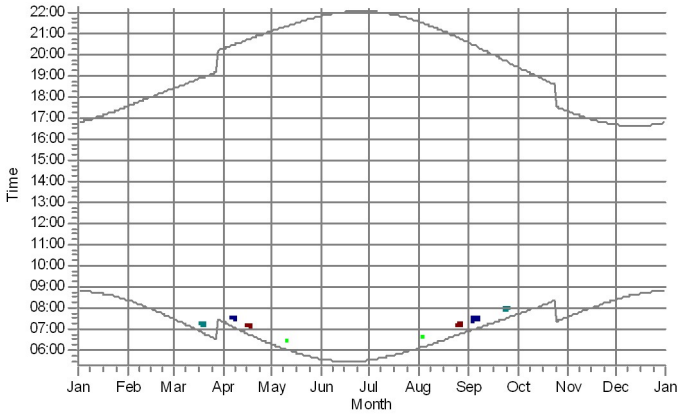
RIN_WT01: Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,



SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

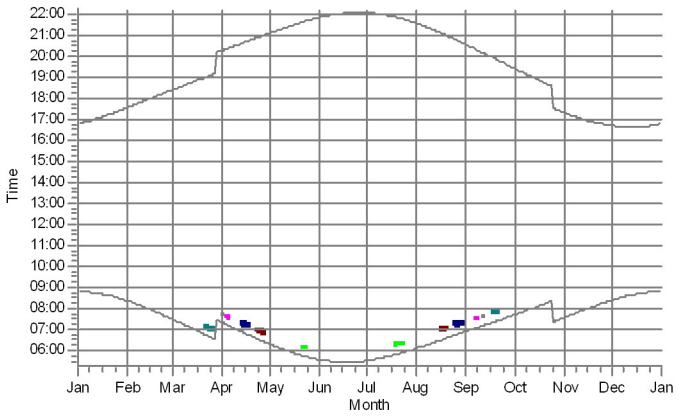
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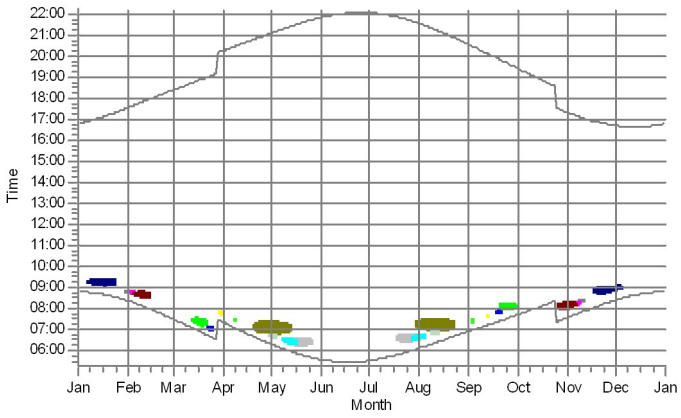
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

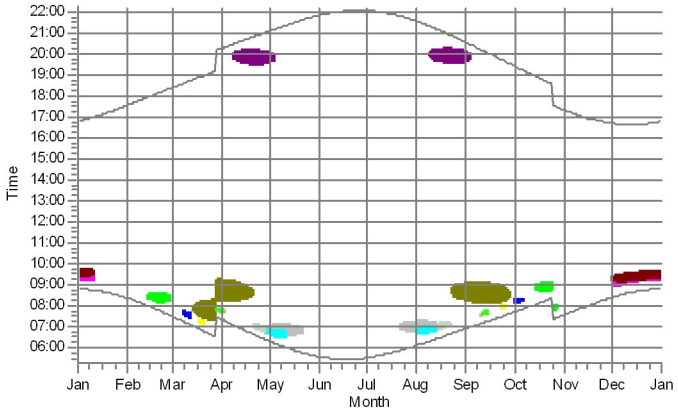
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



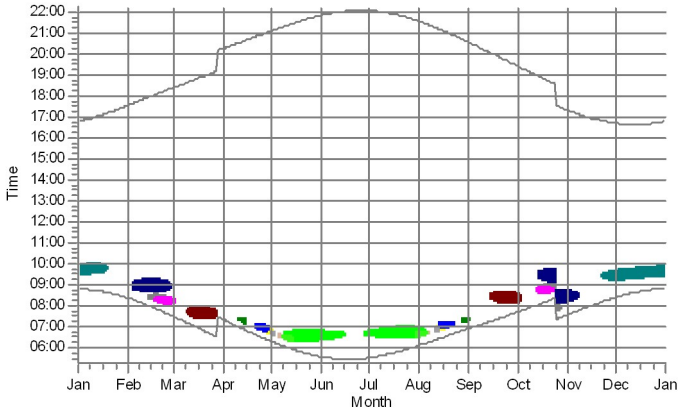
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



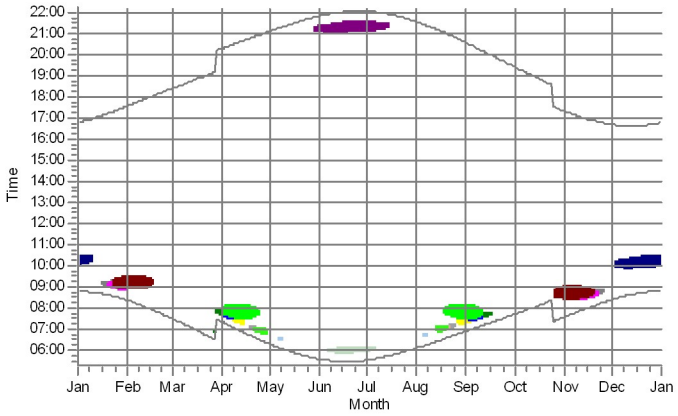
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



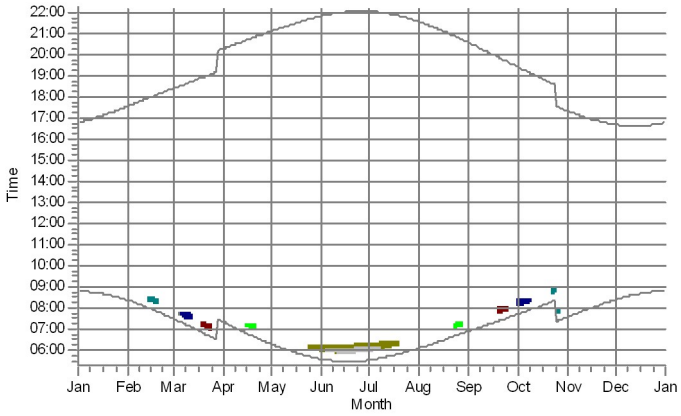
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

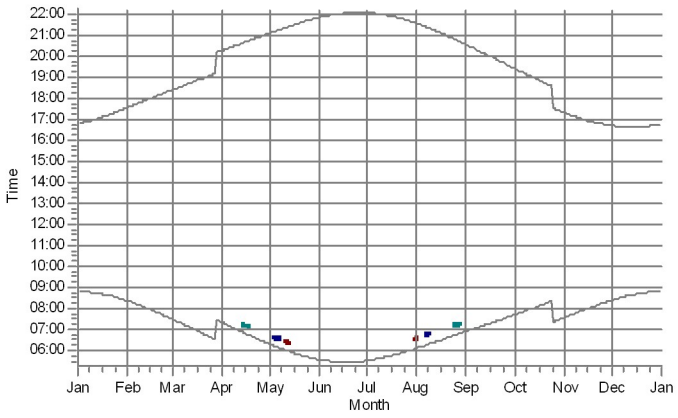
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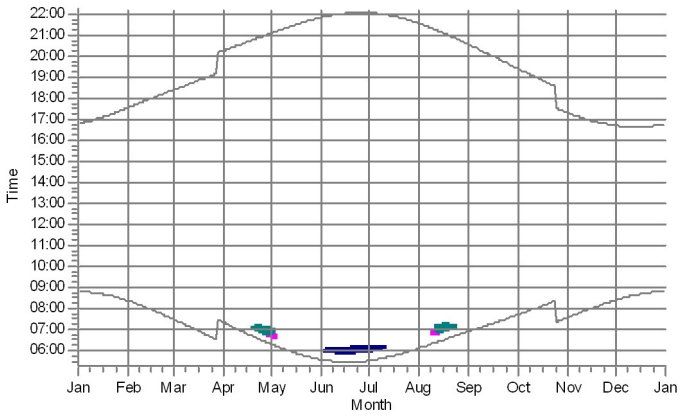
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling

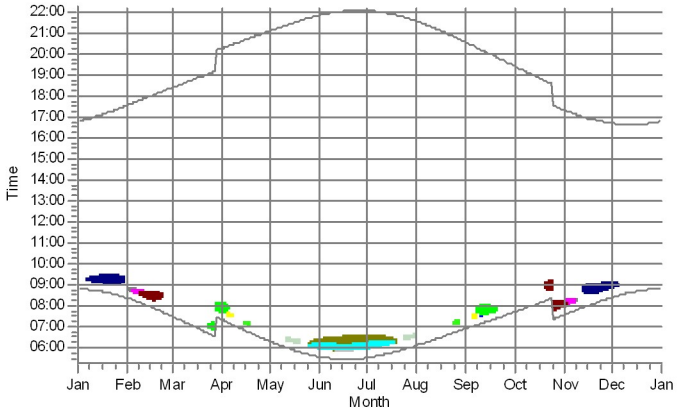
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0



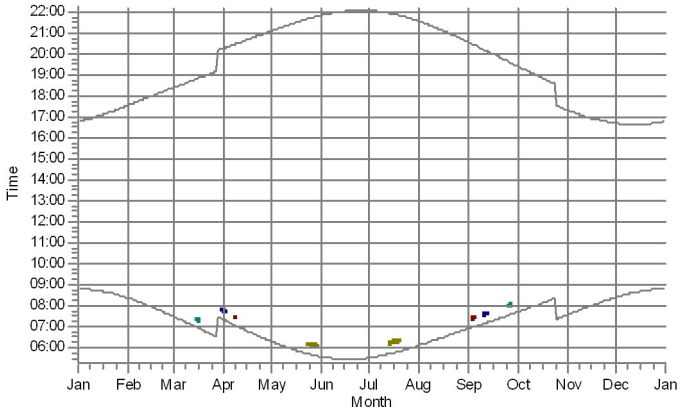
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



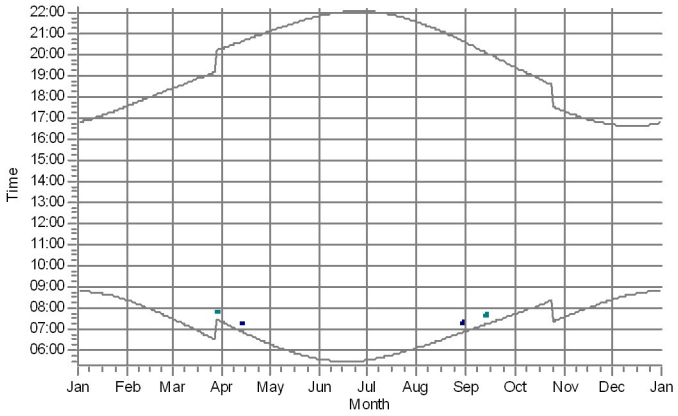
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



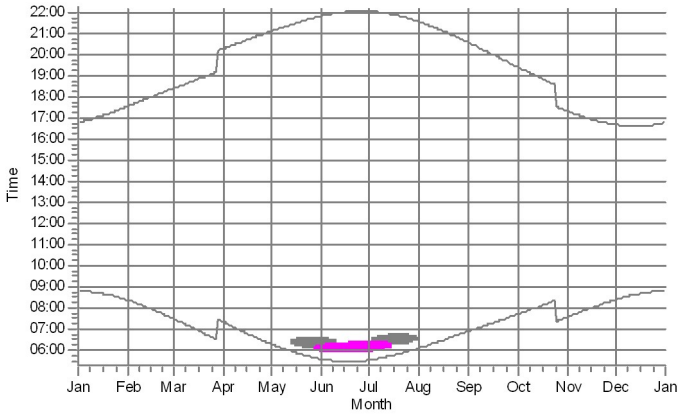
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 r



Shadow receptors

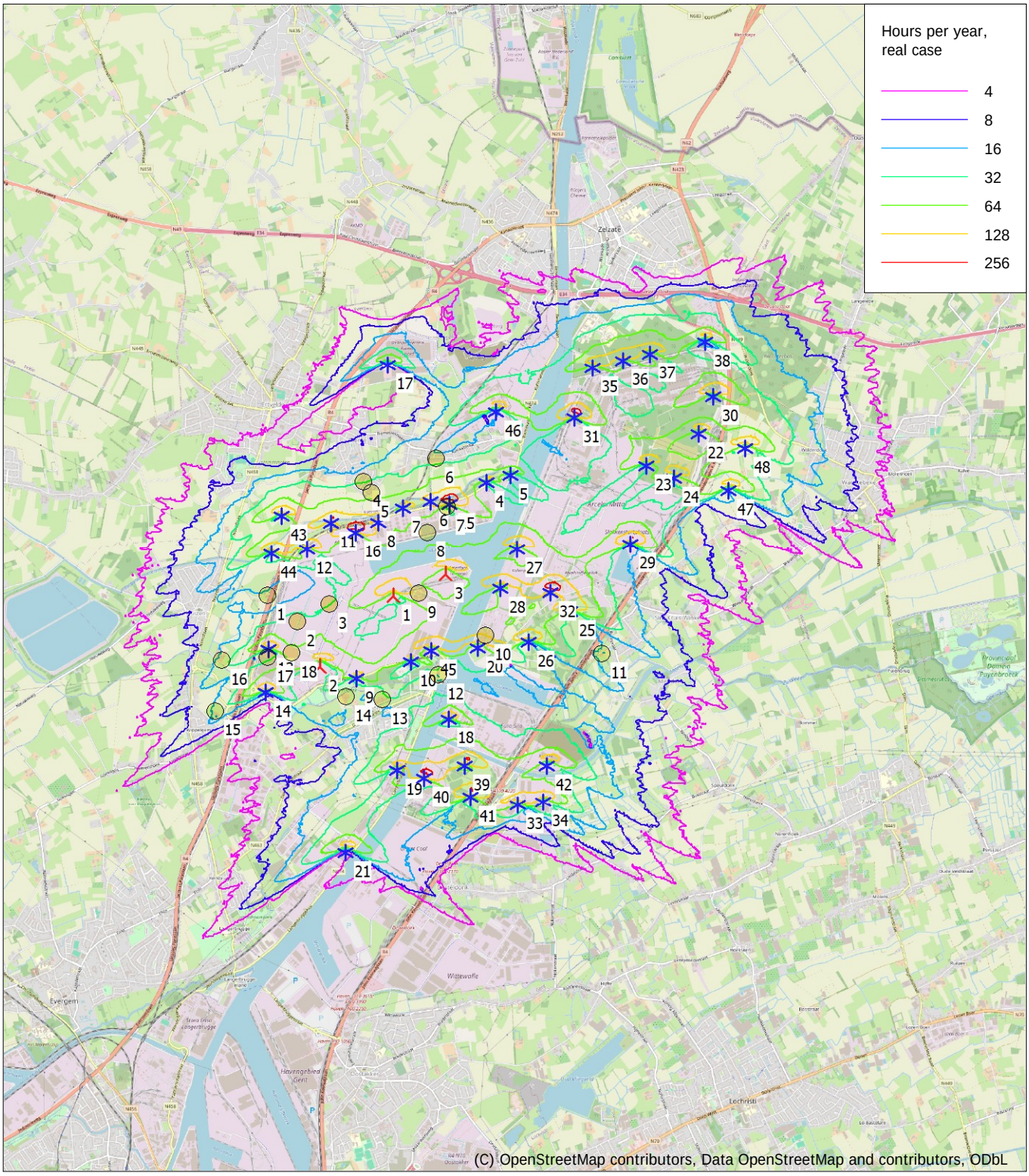
- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
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- 18: Pachtgoederen 1, 9940 Evergem

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SHADOW - Map

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref A + Ontwikkeling



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.600 North: 205.380

New WTG Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

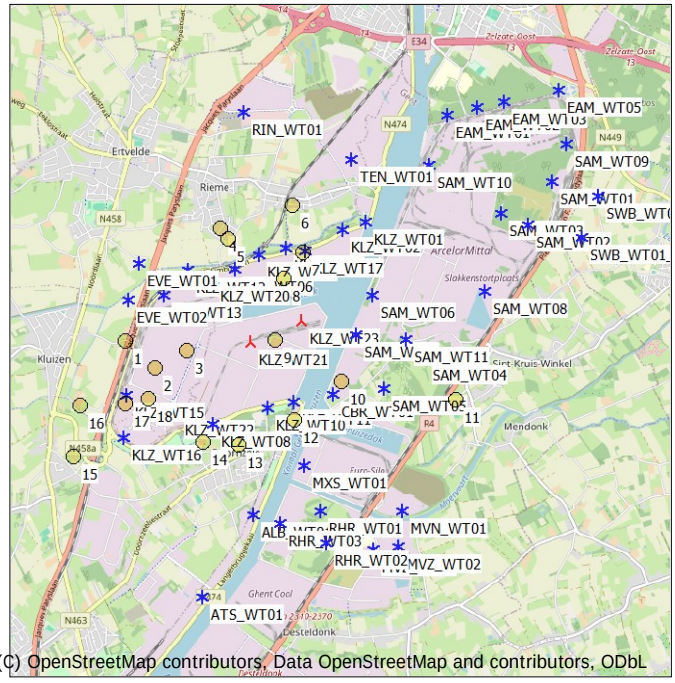
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



Scale 1:100.000

New WTG | Existing WTG | Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EAM_WT01	110.746	208.330	9,8	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT02	111.134	208.423	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT03	111.493	208.509	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EAM_WT05	112.214	208.658	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT11	108.672	204.558	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT21	108.099	205.347	10,0	KLZ_WT21 Armasteel	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	162,5	100.000	-
KLZ_WT22	107.120	204.429	6,4	KLZ_WT22 Magelaanst...	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-
KLZ_WT23	108.781	205.627	9,7	KLZ_WT23 Stukwerkers	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RIN_WT01	108.045	208.389	10,0	Siemens SWT-3.2-101 ...	Yes	Siemens	SWT-3.2-101-3.200	3.200	101,0	127,5	100.000	16,0
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2

To be continued on next page...

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Shadow data Power, rated	Rotor diameter	Hub height	Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	Ooievaarstraat 7, 9940 Evergem	107.712	206.856	6,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Speidamstraat 58, 9940 Evergem	107.822	206.713	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Rimewegel 46, 9940 Evergem	108.680	207.151	7,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Schuitstraat 1, 9042 Gent	110.830	204.575	6,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 41, 9940 Evergem	105.749	203.857	8,6	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	76:19	222	0:50	13:54
2	Pachtgoederen 2, 9940 Evergem	207:48	240	1:56	37:38
3	Pachtgoederen 2, 9940 Evergem	138:32	247	1:19	31:07
4	Ooievaarstraat 7, 9940 Evergem	178:33	265	2:02	31:53
5	Speidamstraat 58, 9940 Evergem	295:28	295	2:35	53:26
6	Rimewegel 46, 9940 Evergem	149:10	271	2:06	25:05
7	Christoffel Columbuslaan 23, 9042 Gent	219:27	319	1:37	47:43
8	Christoffel Columbuslaan 23, 9042 Gent	277:23	281	2:07	50:29
9	Willem van Rubroeckstraat 2, 9042 Gent	384:46	298	2:21	101:46
10	Arbedkaai 3, 9042 Gent	438:40	245	3:15	126:04
11	Schuitstraat 1, 9042 Gent	65:06	228	0:46	16:06
12	Terdonkkaai 8, 9042 Gent	79:46	213	0:43	20:17
13	Doornzele Dries 107, 9940 Evergem	122:29	270	1:16	28:12
14	Abdijdreef 2, 9940 Evergem	115:22	300	0:46	25:13
15	Hageland 41, 9940 Evergem	68:57	159	0:45	19:46
16	Molendreef 5, 9940 Evergem	86:01	196	0:57	20:46
17	Amerigo Vespuccistraat 2A, 9940 Evergem	122:16	264	1:08	26:59
18	Pachtgoederen 1, 9940 Evergem	394:47	341	1:55	95:05

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09/04/2026 09:13/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:40	2:20
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	4:26	0:31
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	370:29	105:50
EAM_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)	4:47	1:28
EAM_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)	1:38	0:30
EAM_WT03	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)	0:39	0:11
EAM_WT05	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)	0:00	0:00
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	29:05	6:51
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:11	4:09
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	23:51	6:46
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	19:04	4:28
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	86:42	20:32
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	61:36	12:33
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	77:09	14:15
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	29:37	5:09
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	55:26	13:59
KLZ_WT11	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)	18:06	4:27
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	84:42	16:16
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	36:24	6:49
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	287:31	71:12
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	161:20	33:14
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	86:39	15:16
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	183:05	35:21
KLZ_WT21	KLZ_WT21 Armasteel	485:17	131:19
KLZ_WT22	KLZ_WT22 Magelaanstraat	493:37	101:11
KLZ_WT23	KLZ_WT23 Stukwerkers	243:26	45:01
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:27	2:38
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	20:22	3:50
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	26:36	3:59
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	20:10	2:32
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	30:17	3:51
RIN_WT01	Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)	0:00	0:00
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:19	0:05
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:12	0:19
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	3:00	0:50
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	40:04	10:13
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	118:12	28:21
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	92:28	19:38
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	76:53	16:15
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	15:14	4:19
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:48	0:14
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	11:01	3:19
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	48:19	11:39
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:09	0:20
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:10	0:02
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	25:01	7:40

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

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SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24			07:32			07:23		07:48 (SAM_WT07)	06:20			05:36		06:04 (KLZ_WT05)
	16:48	41	10:30 (KLZ_WT22)	17:35			18:25			20:17	29	08:17 (KLZ_WT21)	21:06			21:51	2	06:06 (KLZ_WT05)
2	08:50		09:20 (KLZ_WT08)	08:23		08:48 (MVN_WT01)	07:30		07:53 (CBR_WT01)	07:21		07:52 (KLZ_WT21)	06:18			05:36		06:04 (KLZ_WT05)
	16:49	43	10:31 (KLZ_WT22)	17:37	1	08:49 (MVN_WT01)	18:27	1	07:54 (CBR_WT01)	20:19	24	08:16 (KLZ_WT21)	21:08			21:52	3	06:07 (KLZ_WT05)
3	08:49		09:20 (KLZ_WT08)	08:21		08:46 (MVN_WT01)	07:28		07:51 (CBR_WT01)	07:19		07:52 (KLZ_WT21)	06:17			05:35		06:03 (KLZ_WT05)
	16:50	44	10:32 (KLZ_WT22)	17:38	2	08:48 (MVN_WT01)	18:28	4	07:55 (CBR_WT01)	20:20	23	08:15 (KLZ_WT21)	21:10			21:53	3	06:06 (KLZ_WT05)
4	08:49		09:19 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (CBR_WT01)	07:17		07:53 (KLZ_WT21)	06:15			05:34		06:02 (KLZ_WT05)
	16:51	44	10:31 (KLZ_WT22)	17:40	1	08:46 (MVN_WT01)	18:30	6	07:55 (CBR_WT01)	20:22	21	08:14 (KLZ_WT21)	21:11			21:54	4	06:06 (KLZ_WT05)
5	08:49		09:19 (KLZ_WT08)	08:18			07:24		07:47 (CBR_WT01)	07:14		07:37 (KLZ_WT23)	06:13			05:34		06:02 (KLZ_WT05)
	16:53	45	10:32 (KLZ_WT22)	17:42			18:32	8	07:55 (CBR_WT01)	20:24	26	08:13 (KLZ_WT21)	21:13			21:55	5	06:07 (KLZ_WT20)
6	08:49		09:18 (KLZ_WT08)	08:16			07:22		07:44 (CBR_WT01)	07:12		07:34 (KLZ_WT23)	06:11			05:33		06:01 (KLZ_WT05)
	16:54	46	10:32 (KLZ_WT22)	17:44			18:33	10	07:54 (CBR_WT01)	20:25	26	08:10 (KLZ_WT21)	21:14			21:56	6	06:07 (KLZ_WT20)
7	08:48		09:18 (KLZ_WT08)	08:15			07:19		07:43 (CBR_WT01)	07:10		07:32 (KLZ_WT23)	06:09			05:32		06:01 (KLZ_WT05)
	16:55	47	10:33 (KLZ_WT22)	17:46			18:35	10	07:53 (CBR_WT01)	20:27	24	08:07 (KLZ_WT21)	21:16			21:57	7	06:08 (KLZ_WT20)
8	08:48		09:17 (KLZ_WT08)	08:13			07:17		07:45 (CBR_WT01)	07:08		07:30 (KLZ_WT23)	06:08			05:32		06:01 (KLZ_WT06)
	16:56	48	10:33 (KLZ_WT22)	17:47			18:37	6	07:51 (CBR_WT01)	20:29	16	07:46 (KLZ_WT23)	21:18			21:57	9	06:10 (KLZ_WT20)
9	08:48		09:18 (KLZ_WT08)	08:11			07:15			07:06		07:29 (KLZ_WT23)	06:06			05:31		06:00 (KLZ_WT06)
	16:58	48	10:34 (KLZ_WT22)	17:49			18:39			20:30	18	07:47 (KLZ_WT23)	21:19			21:58	9	06:09 (KLZ_WT20)
10	08:47		09:18 (KLZ_WT08)	08:09			07:13		07:35 (SAM_WT05)	07:03		07:29 (KLZ_WT23)	06:04			05:31		06:00 (KLZ_WT06)
	16:59	48	10:34 (KLZ_WT22)	17:51			18:40	1	07:36 (SAM_WT05)	20:32	18	07:47 (KLZ_WT23)	21:21			21:59	10	06:10 (KLZ_WT20)
11	08:47		09:15 (RHR_WT01)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:24 (SAM_WT06)	06:03		06:28 (KLZ_WT17)	05:31		06:00 (KLZ_WT06)
	17:00	50	10:35 (KLZ_WT22)	17:53			18:42	2	07:35 (SAM_WT05)	20:34	18	07:46 (KLZ_WT23)	21:22	1	06:29 (KLZ_WT17)	22:00	11	06:11 (KLZ_WT20)
12	08:46		09:15 (RHR_WT01)	08:06			07:08			06:59		07:21 (SAM_WT06)	06:01		06:26 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:02	49	10:36 (KLZ_WT22)	17:55			18:44			20:35	20	07:45 (KLZ_WT23)	21:24	3	06:29 (KLZ_WT17)	22:00	12	06:11 (KLZ_WT20)
13	08:45		09:14 (RHR_WT01)	08:04			07:06			06:57		07:19 (SAM_WT06)	06:00		06:25 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:03	48	10:36 (KLZ_WT22)	17:56			18:45			20:37	20	07:44 (KLZ_WT23)	21:25	4	06:29 (KLZ_WT17)	22:01	12	06:11 (KLZ_WT20)
14	08:45		09:13 (RHR_WT01)	08:02		08:26 (KLZ_WT10)	07:04			06:55		07:17 (SAM_WT06)	05:58		06:23 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:05	45	10:36 (KLZ_WT22)	17:58	2	08:28 (KLZ_WT10)	18:47			20:39	18	07:42 (KLZ_WT23)	21:27	5	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
15	08:44		09:59 (KLZ_WT22)	08:00		08:24 (KLZ_WT10)	07:02			06:53		07:15 (SAM_WT06)	05:56		06:22 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:06	37	10:36 (KLZ_WT22)	18:00	3	08:27 (KLZ_WT10)	18:49			20:40	15	07:40 (KLZ_WT23)	21:28	6	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
16	08:43		09:59 (KLZ_WT22)	07:58		08:22 (KLZ_WT10)	06:59			06:50			05:55		06:21 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:08	37	10:36 (KLZ_WT22)	18:02	4	08:26 (KLZ_WT10)	18:51			20:42			21:30	7	06:28 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
17	08:42		10:00 (KLZ_WT22)	07:57			06:57			06:48			05:54		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:09	36	10:36 (KLZ_WT22)	18:04			18:52			20:43			21:31	8	06:27 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
18	08:41		10:01 (KLZ_WT22)	07:55			06:55			06:46			05:52		06:18 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:11	35	10:36 (KLZ_WT22)	18:05			18:54			20:45			21:33	8	06:26 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
19	08:40		10:01 (KLZ_WT22)	07:53			06:53			06:44			05:51		06:17 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:12	36	10:37 (KLZ_WT22)	18:07			18:56			20:47			21:34	8	06:25 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
20	08:39		10:02 (KLZ_WT22)	07:51			06:50			06:42			05:49		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:14	35	10:37 (KLZ_WT22)	18:09			18:57			20:48			21:35	5	06:24 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
21	08:38		10:02 (KLZ_WT22)	07:49			06:48			06:40			05:48			05:30		05:59 (KLZ_WT06)
	17:16	34	10:36 (KLZ_WT22)	18:11			18:59			20:50			21:37			22:04	15	06:14 (KLZ_WT20)
22	08:37		10:03 (KLZ_WT22)	07:47			06:46			06:38			05:47			05:30		06:00 (KLZ_WT06)
	17:17	33	10:36 (KLZ_WT22)	18:12			19:01			20:52			21:38			22:05	14	06:14 (KLZ_WT20)
23	08:36		10:04 (KLZ_WT22)	07:45		08:08 (KLZ_WT11)	06:44		07:06 (KLZ_WT21)	06:36			05:46			05:30		06:00 (KLZ_WT06)
	17:19	31	10:35 (KLZ_WT22)	18:14	1	08:09 (KLZ_WT11)	19:02	4	07:10 (KLZ_WT21)	20:53			21:40			22:05	14	06:14 (KLZ_WT20)
24	08:35		10:06 (KLZ_WT22)	07:43			06:41		07:04 (KLZ_WT21)	06:34			05:44			05:31		06:00 (KLZ_WT06)
	17:21	29	10:35 (KLZ_WT22)	18:16			19:04	10	07:14 (KLZ_WT21)	20:55			21:41			22:05	14	06:14 (KLZ_WT20)
25	08:34		10:06 (KLZ_WT22)	07:41			06:39		07:01 (KLZ_WT21)	06:32			05:43			05:31		06:01 (KLZ_WT06)
	17:22	28	10:34 (KLZ_WT22)	18:18			19:06	14	07:15 (KLZ_WT21)	20:57			21:42			22:05	14	06:15 (KLZ_WT20)
26	08:32		10:08 (KLZ_WT22)	07:39			06:37		06:59 (KLZ_WT21)	06:30			05:42			05:31		06:01 (KLZ_WT06)
	17:24	25	10:33 (KLZ_WT22)	18:20			19:07	17	07:16 (KLZ_WT21)	20:58			21:43			22:05	14	06:15 (KLZ_WT20)
27	08:31		10:09 (KLZ_WT22)	07:36			06:35		06:57 (KLZ_WT21)	06:28			05:41			05:32		06:02 (KLZ_WT06)
	17:26	23	10:32 (KLZ_WT22)	18:21			19:09	20	07:17 (KLZ_WT21)	21:00			21:45			22:05	13	06:15 (KLZ_WT20)
28	08:30		10:11 (KLZ_WT22)	07:34			06:32		06:55 (SAM_WT07)	06:26			05:40			05:32		06:02 (KLZ_WT06)
	17:28	20	10:31 (KLZ_WT22)	18:23			19:10	23	07:18 (KLZ_WT21)	21:01			21:46			22:05	13	06:15 (KLZ_WT20)
29	08:28		10:13 (KLZ_WT22)				07:30		07:52 (SAM_WT07)	06:24			05:39			05:33		06:03 (KLZ_WT06)
	17:29	15	10:28 (KLZ_WT22)				20:12	25	08:17 (KLZ_WT21)	21:03			21:47			22:05	13	06:16 (KLZ_WT20)
30	08:27		10:17 (KLZ_WT22)				07:28		07:50 (SAM_WT07)	06:22			05:38			05:33		06:03 (KLZ_WT06)
	17:31	8	10:25 (KLZ_WT22)				20:14	27	08:17 (KLZ_WT21)	21:05			21:48			22:05	12	06:15 (KLZ_WT20)
31	08:26						07:26		07:48 (SAM_WT07)				05:37		06:05 (KLZ_WT05)			
	17:33						20:15	29	08:17 (KLZ_WT21)				21:49	1	06:06 (KLZ_WT05)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1108			14			217			316			56			325	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,56			0,56			0,61			0,63			0,70			0,71	
Total reduction		0,14			0,16			0,22			0,28			0,31			0,31	
Total, real		150			2			49			90			17			100	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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NL-1082 MS Amsterdam
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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	18	07:45 (KLZ_WT23)	19:25			17:21			16:42	50	10:17 (KLZ_WT22)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59		07:27 (KLZ_WT23)	07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31	18	07:45 (KLZ_WT23)	19:23	2	08:13 (SAM_WT05)	17:19			16:42	48	10:17 (KLZ_WT22)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00		07:27 (KLZ_WT23)	07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29	18	07:45 (KLZ_WT23)	19:21	2	08:14 (SAM_WT05)	17:17			16:41	48	10:17 (KLZ_WT22)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02		07:27 (KLZ_WT23)	07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27	16	07:43 (KLZ_WT23)	19:19			17:16			16:40	48	10:18 (KLZ_WT22)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03		07:29 (KLZ_WT23)	07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24	24	08:04 (KLZ_WT21)	19:17	4	08:27 (CBR_WT01)	17:14			16:40	47	10:18 (KLZ_WT22)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05		07:30 (KLZ_WT23)	07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22	26	08:06 (KLZ_WT21)	19:14	8	08:28 (CBR_WT01)	17:12			16:40	46	10:18 (KLZ_WT22)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07		07:32 (KLZ_WT23)	07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20	27	08:08 (KLZ_WT21)	19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	45	10:19 (KLZ_WT22)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08		07:33 (KLZ_WT23)	07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18	23	08:08 (KLZ_WT21)	19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	44	10:19 (KLZ_WT22)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10		07:47 (KLZ_WT21)	07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16	22	08:09 (KLZ_WT21)	19:08	7	08:29 (CBR_WT01)	17:07			16:39	44	10:20 (KLZ_WT22)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11		07:45 (KLZ_WT21)	07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13	24	08:09 (KLZ_WT21)	19:05	5	08:29 (CBR_WT01)	17:06			16:38	43	10:20 (KLZ_WT22)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	29	08:09 (KLZ_WT21)	19:03	3	08:29 (CBR_WT01)	17:04			16:38	41	10:20 (KLZ_WT22)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02			07:56		09:48 (KLZ_WT22)	08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	30	08:09 (KLZ_WT21)	19:01			17:03	9	09:57 (KLZ_WT22)	16:38	40	10:20 (KLZ_WT22)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04			07:57		09:45 (KLZ_WT22)	08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	28	08:09 (KLZ_WT21)	18:59			17:01	15	10:00 (KLZ_WT22)	16:38	40	10:21 (KLZ_WT22)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06			07:59		09:43 (KLZ_WT22)	08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	26	08:08 (KLZ_WT21)	18:57			17:00	20	10:03 (KLZ_WT22)	16:38	39	10:21 (KLZ_WT22)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07			08:01		09:42 (KLZ_WT22)	08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	23	08:07 (KLZ_WT21)	18:55			16:59	23	10:05 (KLZ_WT22)	16:38	38	10:22 (KLZ_WT22)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09			08:03		09:41 (KLZ_WT22)	08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	21	08:06 (KLZ_WT21)	18:53			16:57	25	10:06 (KLZ_WT22)	16:38	37	10:22 (KLZ_WT22)
17	05:49			06:34			07:22		07:47 (KLZ_WT21)	08:11			08:04		09:40 (KLZ_WT22)	08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57	18	08:05 (KLZ_WT21)	18:50			16:56	28	10:08 (KLZ_WT22)	16:39	37	10:23 (KLZ_WT22)
18	05:50			06:35			07:24		07:49 (KLZ_WT21)	08:13		08:38 (KLZ_WT11)	08:06		09:40 (KLZ_WT22)	08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55	15	08:04 (KLZ_WT21)	18:48	1	08:39 (KLZ_WT11)	16:55	29	10:09 (KLZ_WT22)	16:39	36	10:22 (KLZ_WT22)
19	05:51			06:37			07:25		07:50 (KLZ_WT21)	08:14			08:08		09:38 (KLZ_WT22)	08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53	11	08:01 (KLZ_WT21)	18:46			16:53	31	10:09 (KLZ_WT22)	16:39	36	10:23 (KLZ_WT22)
20	05:53			06:38			07:27		07:52 (KLZ_WT21)	08:16			08:09		09:38 (KLZ_WT22)	08:46		09:49 (KLZ_WT22)
	21:50			20:59			19:50	6	07:58 (KLZ_WT21)	18:44			16:52	33	10:11 (KLZ_WT22)	16:39	35	10:24 (KLZ_WT22)
21	05:54			06:40			07:29			08:18			08:11		09:38 (KLZ_WT22)	08:47		09:49 (KLZ_WT22)
	21:49			20:57			19:48			18:42			16:51	34	10:12 (KLZ_WT22)	16:40	35	10:24 (KLZ_WT22)
22	05:55			06:41			07:30			08:19			08:12		09:38 (KLZ_WT22)	08:47		09:50 (KLZ_WT22)
	21:48			20:55			19:46			18:40			16:50	35	10:13 (KLZ_WT22)	16:40	35	10:25 (KLZ_WT22)
23	05:56			06:43			07:32			08:21			08:14		09:37 (KLZ_WT22)	08:48		09:50 (KLZ_WT22)
	21:47			20:53			19:44			18:38			16:49	36	10:13 (KLZ_WT22)	16:41	35	10:25 (KLZ_WT22)
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16		09:38 (KLZ_WT22)	08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48	36	10:14 (KLZ_WT22)	16:41	36	10:25 (KLZ_WT22)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17		09:38 (KLZ_WT22)	08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47	36	10:14 (KLZ_WT22)	16:42	36	10:26 (KLZ_WT22)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19		09:38 (KLZ_WT22)	08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46	36	10:14 (KLZ_WT22)	16:43	37	10:27 (KLZ_WT22)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20		09:38 (KLZ_WT22)	08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45	37	10:15 (KLZ_WT22)	16:43	37	10:27 (KLZ_WT22)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	15	07:42 (KLZ_WT23)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	45	10:16 (KLZ_WT22)	16:44	37	10:27 (KLZ_WT22)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	18	07:43 (KLZ_WT23)	19:30			17:27			16:44	48	10:16 (KLZ_WT22)	16:45	39	10:28 (KLZ_WT22)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	20	07:45 (KLZ_WT23)	19:28			17:25			16:43	49	10:17 (KLZ_WT22)	16:46	38	10:28 (KLZ_WT22)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	20	07:45 (KLZ_WT23)				17:23						16:47	40	10:29 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		128			75			423			61			609			1247	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,64			0,62			0,56			0,56			0,56	
Total reduction		0,31			0,29			0,26			0,20			0,15			0,12	
Total, real		39			22			112			12			89			153	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

January			February			March			April			May			June
1	08:50	09:20 (KLZ_WT08)	08:24	08:50 (MXS_WT01)		07:32			07:23			06:20		06:47 (SAM_WT06)	05:36
	16:48	63 11:26 (KLZ_WT22)	17:35	115 16:35 (KLZ_WT15)		18:25			20:17			21:06	41	07:28 (KLZ_WT21)	21:51
2	08:50	09:21 (KLZ_WT08)	08:23	08:48 (MXS_WT01)		07:30			07:21			06:18		06:48 (KLZ_WT23)	05:36
	16:49	64 11:27 (KLZ_WT22)	17:36	115 16:35 (KLZ_WT15)		18:27			20:19			21:08	39	07:27 (KLZ_WT21)	21:52
3	08:49	09:21 (KLZ_WT08)	08:21	10:39 (KLZ_WT22)		07:28			07:19			06:17		06:49 (KLZ_WT23)	05:35
	16:50	66 11:28 (KLZ_WT22)	17:38	110 16:35 (KLZ_WT15)		18:28			20:20			21:10	39	07:28 (KLZ_WT21)	21:53
4	08:49	09:20 (KLZ_WT08)	08:19	08:45 (MVN_WT01)		07:26		07:49 (KLZ_WT11)	07:17			06:15		06:48 (KLZ_WT23)	05:34
	16:51	67 11:28 (KLZ_WT22)	17:40	110 16:36 (KLZ_WT15)		18:30	2	07:51 (KLZ_WT11)	20:22			21:11	39	07:27 (KLZ_WT21)	21:54
5	08:49	09:20 (KLZ_WT08)	08:18	08:43 (MVN_WT01)		07:24		07:46 (KLZ_WT11)	07:14		07:37 (SAM_WT11)	06:13		06:48 (KLZ_WT23)	05:34
	16:53	69 11:29 (KLZ_WT22)	17:42	109 16:35 (KLZ_WT15)		18:32	4	07:50 (KLZ_WT11)	20:24	1	07:38 (SAM_WT11)	21:13	38	07:26 (KLZ_WT21)	21:55
6	08:49	09:20 (KLZ_WT08)	08:16	08:41 (MVN_WT01)		07:21		07:44 (KLZ_WT11)	07:12		07:34 (SAM_WT11)	06:11		06:49 (KLZ_WT23)	05:33
	16:54	70 11:29 (KLZ_WT22)	17:44	110 16:35 (KLZ_WT15)		18:33	5	07:49 (KLZ_WT11)	20:25	2	07:36 (SAM_WT11)	21:14	37	07:26 (KLZ_WT21)	21:56
7	08:48	09:20 (KLZ_WT08)	08:15	08:39 (MVN_WT01)		07:19		07:43 (KLZ_WT11)	07:10		07:32 (SAM_WT11)	06:09		06:50 (KLZ_WT23)	05:32
	16:55	71 11:30 (KLZ_WT22)	17:45	110 16:35 (KLZ_WT15)		18:35	5	07:48 (KLZ_WT11)	20:27	3	07:35 (SAM_WT11)	21:16	35	07:25 (KLZ_WT21)	21:56
8	08:48	09:20 (KLZ_WT08)	08:13	08:41 (MVN_WT01)		07:17			07:08			06:08		06:50 (KLZ_WT23)	05:32
	16:56	73 11:31 (KLZ_WT22)	17:47	103 16:35 (KLZ_WT15)		18:37			20:29			21:17	34	07:24 (KLZ_WT21)	21:57
9	08:48	09:17 (RHR_WT01)	08:11	10:44 (KLZ_WT22)		07:15			07:06		07:28 (SAM_WT07)	06:06		06:52 (KLZ_WT23)	05:31
	16:58	74 11:32 (KLZ_WT22)	17:49	99 16:35 (KLZ_WT15)		18:39			20:30	2	07:30 (SAM_WT07)	21:19	31	07:23 (KLZ_WT21)	21:58
10	08:47	09:16 (RHR_WT01)	08:09	10:45 (KLZ_WT22)		07:13			07:03		07:26 (SAM_WT07)	06:04		06:53 (KLZ_WT23)	05:31
	16:59	86 16:08 (KLZ_WT15)	17:51	95 16:34 (KLZ_WT15)		18:40			20:32	5	07:31 (SAM_WT07)	21:21	29	07:22 (KLZ_WT21)	21:59
11	08:46	09:15 (RHR_WT01)	08:08	10:46 (KLZ_WT22)		07:11			07:01		07:24 (SAM_WT07)	06:03		06:56 (KLZ_WT23)	05:31
	17:00	94 16:11 (KLZ_WT15)	17:53	92 16:34 (KLZ_WT15)		18:42			20:34	7	07:31 (SAM_WT07)	21:22	25	07:21 (KLZ_WT21)	22:00
12	08:46	09:15 (RHR_WT01)	08:06	10:47 (KLZ_WT22)		07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01		07:01 (KLZ_WT21)	05:30
	17:02	99 16:14 (KLZ_WT15)	17:55	88 16:33 (KLZ_WT15)		18:44	4	07:35 (CBR_WT01)	20:35	9	07:30 (SAM_WT07)	21:24	18	07:19 (KLZ_WT21)	22:00
13	08:45	09:14 (RHR_WT01)	08:04	10:48 (KLZ_WT22)		07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00		07:03 (KLZ_WT21)	05:30
	17:03	103 16:15 (KLZ_WT15)	17:56	83 16:32 (KLZ_WT15)		18:45	7	07:36 (CBR_WT01)	20:37	10	07:29 (SAM_WT07)	21:25	14	07:17 (KLZ_WT21)	22:01
14	08:45	09:13 (RHR_WT01)	08:02	10:50 (KLZ_WT22)		07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58		07:05 (KLZ_WT21)	05:30
	17:05	108 16:17 (KLZ_WT15)	17:58	77 16:31 (KLZ_WT15)		18:47	10	07:36 (CBR_WT01)	20:38	11	07:28 (SAM_WT07)	21:27	9	07:14 (KLZ_WT21)	22:02
15	08:44	09:12 (RHR_WT01)	08:00	10:52 (KLZ_WT22)		07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30
	17:06	112 16:19 (KLZ_WT15)	18:00	71 16:30 (KLZ_WT15)		18:49	12	07:36 (CBR_WT01)	20:40	8	07:26 (SAM_WT07)	21:28			22:02
16	08:43	09:11 (RHR_WT01)	07:58	10:54 (KLZ_WT22)		06:59		07:22 (CBR_WT01)	06:50			05:55			05:30
	17:08	114 16:20 (KLZ_WT15)	18:02	63 16:29 (KLZ_WT15)		18:50	14	07:36 (CBR_WT01)	20:42			21:30			22:03
17	08:42	09:11 (RHR_WT01)	07:57	10:57 (KLZ_WT22)		06:57		07:22 (CBR_WT01)	06:48			05:54			05:30
	17:09	116 16:22 (KLZ_WT15)	18:04	51 16:27 (KLZ_WT15)		18:52	13	07:35 (CBR_WT01)	20:43			21:31			22:03
18	08:41	09:13 (RHR_WT01)	07:55	11:04 (KLZ_WT22)		06:55		07:17 (SAM_WT05)	06:46			05:52			05:30
	17:11	114 16:23 (KLZ_WT15)	18:05	34 16:26 (KLZ_WT15)		18:54	13	07:33 (CBR_WT01)	20:45			21:33			22:03
19	08:40	09:25 (KLZ_WT08)	07:53	16:02 (KLZ_WT15)		06:53		07:15 (SAM_WT05)	06:44		07:10 (KLZ_WT21)	05:51			05:30
	17:12	113 16:25 (KLZ_WT15)	18:07	21 16:23 (KLZ_WT15)		18:56	13	07:32 (CBR_WT01)	20:47	9	07:19 (KLZ_WT21)	21:34			22:04
20	08:39	09:26 (KLZ_WT08)	07:51	16:05 (KLZ_WT15)		06:50		07:13 (SAM_WT05)	06:42		07:06 (KLZ_WT21)	05:49			05:30
	17:14	114 16:26 (KLZ_WT15)	18:09	15 16:20 (KLZ_WT15)		18:57	5	07:18 (SAM_WT05)	20:48	16	07:22 (KLZ_WT21)	21:35			22:04
21	08:38	09:27 (KLZ_WT08)	07:49			06:48			06:40		07:04 (KLZ_WT21)	05:48			05:30
	17:16	113 16:26 (KLZ_WT15)	18:11			18:59			20:50	20	07:24 (KLZ_WT21)	21:37			22:04
22	08:37	09:29 (KLZ_WT08)	07:47	08:10 (KLZ_WT10)		06:46			06:38		07:02 (KLZ_WT21)	05:47			05:30
	17:17	111 16:28 (KLZ_WT15)	18:12	1 08:11 (KLZ_WT10)		19:01			20:52	23	07:25 (KLZ_WT21)	21:38			22:05
23	08:36	09:32 (KLZ_WT08)	07:45	08:08 (KLZ_WT10)		06:44			06:36		07:01 (KLZ_WT21)	05:46			05:30
	17:19	108 16:29 (KLZ_WT15)	18:14	4 08:12 (KLZ_WT10)		19:02			20:53	25	07:26 (KLZ_WT21)	21:40			22:05
24	08:35	10:37 (KLZ_WT22)	07:43	08:06 (KLZ_WT10)		06:41			06:34		06:59 (KLZ_WT21)	05:44			05:31
	17:21	106 16:30 (KLZ_WT15)	18:16	6 08:12 (KLZ_WT10)		19:04			20:55	28	07:27 (KLZ_WT21)	21:41			22:05
25	08:34	10:36 (KLZ_WT22)	07:41	08:04 (KLZ_WT10)		06:39			06:32		06:55 (KLZ_WT23)	05:43			05:31
	17:22	107 16:30 (KLZ_WT15)	18:18	8 08:12 (KLZ_WT10)		19:05			20:57	32	07:27 (KLZ_WT21)	21:42			22:05
26	08:32	10:37 (KLZ_WT22)	07:39	08:02 (KLZ_WT10)		06:37			06:30		06:53 (KLZ_WT23)	05:42			05:31
	17:24	109 16:32 (KLZ_WT15)	18:20	10 08:12 (KLZ_WT10)		19:07			20:58	34	07:27 (KLZ_WT21)	21:43			22:05
27	08:31	10:36 (KLZ_WT22)	07:36	08:03 (KLZ_WT10)		06:35			06:28		06:51 (KLZ_WT23)	05:41			05:32
	17:26	110 16:32 (KLZ_WT15)	18:21	8 08:11 (KLZ_WT10)		19:09			21:00	36	07:27 (KLZ_WT21)	21:45			22:05
28	08:30	10:37 (KLZ_WT22)	07:34	08:04 (KLZ_WT10)		06:32			06:26		06:50 (SAM_WT06)	05:40			05:32
	17:28	111 16:33 (KLZ_WT15)	18:23	4 08:08 (KLZ_WT10)		19:10			21:01	38	07:28 (KLZ_WT21)	21:46			22:05
29	08:28	10:37 (KLZ_WT22)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33
	17:29	111 16:33 (KLZ_WT15)				20:12			21:03	40	07:28 (KLZ_WT21)	21:47			22:05
30	08:27	08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33
	17:31	113 16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	42	07:28 (KLZ_WT21)	21:48			22:04
31	08:26	08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37			
	17:33	114 16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49			
Potential sun hours	262		279			367			415			482			495
Total, worst case		3003		1712			109			401			428		
Sun reduction		0,25		0,30			0,38			0,46			0,46		
Oper. time red.		0,98		0,98			0,98			0,98			0,98		
Wind dir. red.		0,62		0,65			0,59			0,65			0,65		
Total reduction		0,15		0,19			0,22			0,29			0,29		
Total, real		448		326			24			118			125		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:11 (KLZ_WT21)	06:57		07:23 (SAM_WT07)	07:44		08:09 (CBR_WT01)	07:37		10:14 (KLZ_WT22)	08:26		08:57 (RHR_WT01)
	22:04			21:34	19	07:30 (KLZ_WT21)	20:33	7	07:30 (SAM_WT07)	19:25	6	08:15 (CBR_WT01)	17:21	96	16:04 (KLZ_WT15)	16:42	93	15:53 (KLZ_WT15)
2	05:35			06:11		07:05 (KLZ_WT23)	06:59		07:24 (SAM_WT07)	07:46		08:11 (CBR_WT01)	07:38		10:13 (KLZ_WT22)	08:27		08:59 (RHR_WT01)
	22:04			21:32	27	07:32 (KLZ_WT21)	20:31	5	07:29 (SAM_WT07)	19:23	2	08:13 (CBR_WT01)	17:19	100	16:05 (KLZ_WT15)	16:42	87	15:52 (KLZ_WT15)
3	05:35			06:12		07:02 (KLZ_WT23)	07:00		07:26 (SAM_WT07)	07:48			07:40		08:10 (MVN_WT01)	08:29		09:00 (RHR_WT01)
	22:04			21:30	31	07:33 (KLZ_WT21)	20:29	2	07:28 (SAM_WT07)	19:21			17:17	104	16:05 (KLZ_WT15)	16:41	74	11:15 (KLZ_WT22)
4	05:36			06:14		07:01 (KLZ_WT23)	07:02			07:49			07:42		08:09 (MVN_WT01)	08:30		09:05 (KLZ_WT08)
	22:03			21:29	32	07:33 (KLZ_WT21)	20:27			19:19			17:16	110	16:05 (KLZ_WT15)	16:40	73	11:16 (KLZ_WT22)
5	05:37			06:15		07:00 (KLZ_WT23)	07:03		07:29 (SAM_WT11)	07:51			07:44		08:11 (MVN_WT01)	08:31		09:06 (KLZ_WT08)
	22:03			21:27	34	07:34 (KLZ_WT21)	20:24	3	07:32 (SAM_WT11)	19:16			17:14	109	16:05 (KLZ_WT15)	16:40	70	11:15 (KLZ_WT22)
6	05:38			06:17		06:59 (KLZ_WT23)	07:05		07:30 (SAM_WT11)	07:53			07:45		08:13 (MVN_WT01)	08:33		09:06 (KLZ_WT08)
	22:02			21:25	36	07:35 (KLZ_WT21)	20:22	2	07:32 (SAM_WT11)	19:14			17:12	109	16:05 (KLZ_WT15)	16:40	70	11:15 (KLZ_WT22)
7	05:38			06:18		06:59 (KLZ_WT23)	07:07		07:32 (SAM_WT11)	07:54		08:19 (KLZ_WT11)	07:47		08:15 (MVN_WT01)	08:34		09:07 (KLZ_WT08)
	22:02			21:24	37	07:36 (KLZ_WT21)	20:20	1	07:33 (SAM_WT11)	19:12	6	08:25 (KLZ_WT11)	17:11	109	16:05 (KLZ_WT15)	16:39	69	11:16 (KLZ_WT22)
8	05:39			06:20		06:58 (KLZ_WT23)	07:08			07:56		08:21 (KLZ_WT11)	07:49		10:10 (KLZ_WT22)	08:35		09:08 (KLZ_WT08)
	22:01			21:22	38	07:36 (KLZ_WT21)	20:18			19:10	5	08:26 (KLZ_WT11)	17:09	110	16:06 (KLZ_WT15)	16:39	67	11:16 (KLZ_WT22)
9	05:40			06:21		06:58 (KLZ_WT23)	07:10			07:58		08:22 (KLZ_WT11)	07:50		08:19 (MXS_WT01)	08:36		09:09 (KLZ_WT08)
	22:00			21:20	38	07:36 (KLZ_WT21)	20:15			19:08	3	08:25 (KLZ_WT11)	17:07	114	16:06 (KLZ_WT15)	16:39	65	11:16 (KLZ_WT22)
10	05:41			06:23		06:57 (KLZ_WT23)	07:11			07:59		08:24 (KLZ_WT11)	07:52		08:21 (MXS_WT01)	08:37		09:10 (KLZ_WT08)
	22:00			21:18	39	07:36 (KLZ_WT21)	20:13			19:05	1	08:25 (KLZ_WT11)	17:06	115	16:06 (KLZ_WT15)	16:38	64	11:16 (KLZ_WT22)
11	05:42			06:24		06:57 (KLZ_WT23)	07:13			08:01			07:54		08:23 (MXS_WT01)	08:38		09:10 (KLZ_WT08)
	21:59			21:16	40	07:37 (KLZ_WT21)	20:11			19:03			17:04	114	16:06 (KLZ_WT15)	16:38	63	11:16 (KLZ_WT22)
12	05:43			06:26		06:55 (SAM_WT06)	07:14			08:02			07:56		08:24 (MXS_WT01)	08:39		09:11 (KLZ_WT08)
	21:58			21:14	41	07:36 (KLZ_WT21)	20:09			19:01			17:03	113	16:05 (KLZ_WT15)	16:38	62	11:16 (KLZ_WT22)
13	05:44			06:27		06:54 (SAM_WT06)	07:16		07:41 (SAM_WT04)	08:04			07:57		10:09 (KLZ_WT22)	08:40		09:12 (KLZ_WT08)
	21:57			21:13	42	07:36 (KLZ_WT21)	20:06	1	07:42 (SAM_WT04)	18:59			17:01	111	16:05 (KLZ_WT15)	16:38	60	11:16 (KLZ_WT22)
14	05:45			06:29		06:56 (SAM_WT06)	07:18			08:06		08:36 (KLZ_WT10)	07:59		10:09 (KLZ_WT22)	08:41		09:13 (KLZ_WT08)
	21:56			21:11	40	07:36 (KLZ_WT21)	20:04			18:57	6	08:42 (KLZ_WT10)	17:00	111	16:05 (KLZ_WT15)	16:38	59	11:17 (KLZ_WT22)
15	05:47			06:30		06:57 (SAM_WT06)	07:19			08:07		08:34 (KLZ_WT10)	08:01		10:09 (KLZ_WT22)	08:42		09:15 (KLZ_WT08)
	21:56			21:09	38	07:35 (KLZ_WT21)	20:02			18:55	10	08:44 (KLZ_WT10)	16:59	110	16:05 (KLZ_WT15)	16:38	56	11:17 (KLZ_WT22)
16	05:48			06:32		06:59 (KLZ_WT23)	07:21			08:09		08:35 (KLZ_WT10)	08:02		10:10 (KLZ_WT22)	08:43		09:16 (KLZ_WT08)
	21:55			21:07	36	07:35 (KLZ_WT21)	20:00			18:53	9	08:44 (KLZ_WT10)	16:57	109	16:05 (KLZ_WT15)	16:38	55	11:17 (KLZ_WT22)
17	05:49			06:34		07:00 (KLZ_WT23)	07:22			08:11		08:36 (KLZ_WT10)	08:04		10:10 (KLZ_WT22)	08:44		09:17 (RHR_WT02)
	21:54			21:05	34	07:34 (KLZ_WT21)	19:57			18:50	8	08:44 (KLZ_WT10)	16:56	107	16:04 (KLZ_WT15)	16:39	54	11:18 (KLZ_WT22)
18	05:50			06:35		07:02 (KLZ_WT23)	07:24			08:12		08:38 (KLZ_WT10)	08:06		10:11 (KLZ_WT22)	08:45		09:16 (RHR_WT02)
	21:52			21:03	32	07:34 (KLZ_WT21)	19:55			18:48	6	08:44 (KLZ_WT10)	16:55	105	16:04 (KLZ_WT15)	16:39	55	11:18 (KLZ_WT22)
19	05:51			06:37		07:05 (KLZ_WT21)	07:25			08:14		08:40 (KLZ_WT10)	08:08		09:05 (KLZ_WT08)	08:45		09:17 (RHR_WT02)
	21:51			21:01	27	07:32 (KLZ_WT21)	19:53			18:46	3	08:43 (KLZ_WT10)	16:53	109	16:03 (KLZ_WT15)	16:39	54	11:18 (KLZ_WT22)
20	05:53			06:38		07:06 (KLZ_WT21)	07:27			08:16			08:09		09:04 (KLZ_WT08)	08:46		09:18 (RHR_WT02)
	21:50			20:59	25	07:31 (KLZ_WT21)	19:50			18:44			16:52	111	16:03 (KLZ_WT15)	16:39	54	11:19 (KLZ_WT22)
21	05:54			06:40		07:07 (KLZ_WT21)	07:29			08:18		16:40 (KLZ_WT15)	08:11		09:03 (KLZ_WT08)	08:47		09:18 (RHR_WT02)
	21:49			20:57	22	07:29 (KLZ_WT21)	19:48			18:42	6	16:46 (KLZ_WT15)	16:51	113	16:02 (KLZ_WT15)	16:40	54	11:19 (KLZ_WT22)
22	05:55			06:41		07:09 (KLZ_WT21)	07:30			08:19		16:34 (KLZ_WT15)	08:12		09:02 (KLZ_WT08)	08:47		09:19 (RHR_WT02)
	21:48			20:55	19	07:28 (KLZ_WT21)	19:46			18:40	17	16:51 (KLZ_WT15)	16:50	114	16:02 (KLZ_WT15)	16:40	54	11:20 (KLZ_WT22)
23	05:56			06:43		07:10 (KLZ_WT21)	07:32		07:56 (SAM_WT05)	08:21		16:31 (KLZ_WT15)	08:14		09:01 (KLZ_WT08)	08:48		09:19 (RHR_WT02)
	21:47			20:53	15	07:25 (KLZ_WT21)	19:44	5	08:01 (SAM_WT05)	18:38	23	16:54 (KLZ_WT15)	16:49	112	16:01 (KLZ_WT15)	16:41	54	11:20 (KLZ_WT22)
24	05:58			06:45		07:14 (KLZ_WT21)	07:33		07:58 (SAM_WT05)	08:23		11:32 (KLZ_WT22)	08:16		08:51 (RHR_WT01)	08:48		09:19 (RHR_WT02)
	21:45			20:50	8	07:22 (KLZ_WT21)	19:41	10	08:14 (CBR_WT01)	18:36	41	16:57 (KLZ_WT15)	16:48	112	16:00 (KLZ_WT15)	16:41	54	11:20 (KLZ_WT22)
25	05:59			06:46			07:35		07:59 (SAM_WT05)	07:24		10:27 (KLZ_WT22)	08:17		08:49 (RHR_WT01)	08:48		09:20 (RHR_WT02)
	21:44			20:48			19:39	14	08:16 (CBR_WT01)	17:34	54	15:58 (KLZ_WT15)	16:47	116	16:00 (KLZ_WT15)	16:42	55	11:22 (KLZ_WT22)
26	06:01			06:48			07:36		08:01 (SAM_WT05)	07:26		10:24 (KLZ_WT22)	08:19		08:49 (RHR_WT01)	08:49		09:20 (RHR_WT02)
	21:43			20:46			19:37	14	08:17 (CBR_WT01)	17:32	65	16:00 (KLZ_WT15)	16:46	114	15:58 (KLZ_WT15)	16:43	55	11:22 (KLZ_WT22)
27	06:02			06:49		07:23 (SAM_WT07)	07:38		08:03 (CBR_WT01)	07:28		10:21 (KLZ_WT22)	08:20		08:51 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:41			20:44	2	07:25 (SAM_WT07)	19:35	15	08:18 (CBR_WT01)	17:30	72	16:00 (KLZ_WT15)	16:45	111	15:58 (KLZ_WT15)	16:43	55	11:22 (KLZ_WT22)
28	06:03			06:51		07:20 (SAM_WT07)	07:40		08:04 (CBR_WT01)	07:30		10:19 (KLZ_WT22)	08:22		08:53 (RHR_WT01)	08:49		09:21 (RHR_WT08)
	21:40			20:42	8	07:28 (SAM_WT07)	19:32	13	08:17 (CBR_WT01)	17:28	78	16:01 (KLZ_WT15)	16:44	108	15:57 (KLZ_WT15)	16:44	56	11:23 (KLZ_WT22)
29	06:05		07:19 (KLZ_WT21)	06:52		07:18 (SAM_WT07)	07:41		08:06 (CBR_WT01)	07:31		10:17 (KLZ_WT22)	08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	3	07:22 (KLZ_WT21)	20:40	11	07:29 (SAM_WT07)	19:30	11	08:17 (CBR_WT01)	17:27	84	16:02 (KLZ_WT15)	16:44	104	15:56 (KLZ_WT15)	16:45	57	11:23 (KLZ_WT22)
30	06:06		07:15 (KLZ_WT21)	06:54		07:20 (SAM_WT07)	07:43		08:08 (CBR_WT01)	07:33		10:16 (KLZ_WT22)	08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	11	07:26 (KLZ_WT21)	20:38	10	07:30 (SAM_WT07)	19:28	8	08:16 (CBR_WT01)	17:25	89	16:03 (KLZ_WT15)	16:43	99	15:55 (KLZ_WT15)	16:46	59	11:24 (KLZ_WT22)
31	06:08		07:13 (KLZ_WT21)	06:56		07:21 (SAM_WT07)				07:35		10:15 (KLZ_WT22)				08:50		09:20 (KLZ_WT08)
	21:35	16	07:29 (KLZ_WT21)	20:35	8	07:29 (SAM_WT07)				17:23	94	16:04 (KLZ_WT15)				16:47	61	11:25 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		30			789			111			688			3279			1918	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,65			0,60			0,65			0,63			0,58	
Total reduction		0,28			0,30			0,25			0,23			0,17			0,13	
Total, real		9			234			28			159			542			247	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20		07:01 (KLZ_WT23)	05:36		
	16:48	55	13:52 (KLZ_WT22)	17:35	38	16:59 (KLZ_WT15)	18:25	13	08:08 (CBR_WT01)	20:17	5	07:51 (SAM_WT11)	21:06	68	08:09 (KLZ_WT21)	21:51		
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18		07:01 (KLZ_WT23)	05:36		
	16:49	55	13:52 (KLZ_WT22)	17:36	35	16:58 (KLZ_WT15)	18:27	16	08:09 (CBR_WT01)	20:19	6	07:49 (SAM_WT11)	21:08	67	08:08 (KLZ_WT21)	21:52		
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16		07:02 (KLZ_WT23)	05:35		
	16:50	55	13:53 (KLZ_WT22)	17:38	32	16:58 (KLZ_WT15)	18:28	18	08:09 (CBR_WT01)	20:20	6	07:47 (SAM_WT07)	21:10	66	08:08 (KLZ_WT21)	21:53		
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15		07:02 (KLZ_WT23)	05:34		
	16:51	54	13:52 (KLZ_WT22)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	64	08:06 (KLZ_WT21)	21:54		
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13		07:02 (KLZ_WT23)	05:34		
	16:53	53	13:53 (KLZ_WT22)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	62	08:05 (KLZ_WT21)	21:55		
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11		07:03 (KLZ_WT23)	05:33		
	16:54	51	13:52 (KLZ_WT22)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	60	08:05 (KLZ_WT21)	21:56		
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09		07:04 (KLZ_WT23)	05:32		
	16:55	46	13:53 (KLZ_WT22)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	18	07:54 (KLZ_WT21)	21:16	54	08:03 (KLZ_WT21)	21:56		
8	08:48		13:08 (KLZ_WT22)	08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08		07:05 (KLZ_WT23)	05:32		
	16:56	45	13:53 (KLZ_WT22)	17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	29	08:01 (KLZ_WT21)	21:17	49	08:01 (KLZ_WT21)	21:57		
9	08:48		13:09 (KLZ_WT22)	08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06		07:07 (KLZ_WT23)	05:31		
	16:58	44	13:53 (KLZ_WT22)	17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	31	08:04 (KLZ_WT21)	21:19	43	08:00 (KLZ_WT21)	21:58		
10	08:47		13:10 (KLZ_WT22)	08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04		07:09 (KLZ_WT23)	05:31		
	16:59	43	13:53 (KLZ_WT22)	17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	32	08:06 (KLZ_WT21)	21:21	35	07:58 (KLZ_WT21)	21:59		
11	08:46		13:11 (KLZ_WT22)	08:08		08:32 (KLZ_WT11)	07:11		07:33 (SAM_WT05)	07:01		07:36 (SAM_WT07)	06:03		07:33 (KLZ_WT21)	05:31		
	17:00	41	13:52 (KLZ_WT22)	17:53	1	08:33 (KLZ_WT11)	18:42	8	07:41 (SAM_WT05)	20:34	32	08:08 (KLZ_WT21)	21:22	24	07:57 (KLZ_WT21)	22:00		
12	08:46		13:12 (KLZ_WT22)	08:06		08:30 (KLZ_WT11)	07:08		07:31 (SAM_WT05)	06:59		07:33 (KLZ_WT21)	06:01		07:34 (KLZ_WT21)	05:30		
	17:02	41	13:53 (KLZ_WT22)	17:55	4	08:34 (KLZ_WT11)	18:44	8	07:39 (SAM_WT05)	20:35	35	08:08 (KLZ_WT21)	21:24	21	07:55 (KLZ_WT21)	22:00		
13	08:45		13:13 (KLZ_WT22)	08:04		08:28 (KLZ_WT11)	07:06			06:57		07:32 (KLZ_WT21)	05:59		07:37 (KLZ_WT21)	05:30		
	17:03	40	13:53 (KLZ_WT22)	17:56	6	08:34 (KLZ_WT11)	18:45			20:37	37	08:09 (KLZ_WT21)	21:25	16	07:53 (KLZ_WT21)	22:01		
14	08:44		13:14 (KLZ_WT22)	08:02		08:26 (KLZ_WT11)	07:04			06:55		07:30 (KLZ_WT21)	05:58		07:41 (KLZ_WT21)	05:30		
	17:05	38	13:52 (KLZ_WT22)	17:58	8	08:34 (KLZ_WT11)	18:47			20:38	40	08:10 (KLZ_WT21)	21:27	7	07:48 (KLZ_WT21)	22:02		
15	08:44		13:16 (KLZ_WT22)	08:00		08:24 (KLZ_WT11)	07:02			06:52		07:29 (KLZ_WT21)	05:56			05:30		
	17:06	35	13:51 (KLZ_WT22)	18:00	10	08:34 (KLZ_WT11)	18:49			20:40	42	08:11 (KLZ_WT21)	21:28			22:02		
16	08:43		13:17 (KLZ_WT22)	07:58		08:23 (KLZ_WT11)	06:59			06:50		07:28 (KLZ_WT21)	05:55			05:30		
	17:08	34	13:51 (KLZ_WT22)	18:02	10	08:33 (KLZ_WT11)	18:50			20:42	44	08:12 (KLZ_WT21)	21:30			22:03		
17	08:42		13:19 (KLZ_WT22)	07:57		08:25 (KLZ_WT11)	06:57			06:48		07:27 (KLZ_WT21)	05:54			05:30		
	17:09	31	13:50 (KLZ_WT22)	18:04	6	08:31 (KLZ_WT11)	18:52			20:43	45	08:12 (KLZ_WT21)	21:31			22:03		
18	08:41		13:20 (KLZ_WT22)	07:55			06:55			06:46		07:26 (KLZ_WT21)	05:52			05:29		
	17:11	29	13:49 (KLZ_WT22)	18:05			18:54			20:45	47	08:13 (KLZ_WT21)	21:33			22:03		
19	08:40		13:23 (KLZ_WT22)	07:53			06:53			06:44		07:26 (KLZ_WT21)	05:51			05:30		
	17:12	25	13:48 (KLZ_WT22)	18:07			18:55			20:47	47	08:13 (KLZ_WT21)	21:34			22:04		
20	08:39		13:25 (KLZ_WT22)	07:51			06:50			06:42		07:12 (KLZ_WT23)	05:49			05:30		
	17:14	25	16:43 (KLZ_WT15)	18:09			18:57			20:48	57	08:13 (KLZ_WT21)	21:35			22:04		
21	08:38		09:05 (MVN_WT01)	07:49			06:48			06:40		07:03 (SAM_WT06)	05:48			05:30		
	17:16	24	16:44 (KLZ_WT15)	18:11			18:59			20:50	65	08:13 (KLZ_WT21)	21:37			22:04		
22	08:37		09:04 (MVN_WT01)	07:47			06:46			06:38		07:01 (SAM_WT06)	05:47			05:30		
	17:17	14	16:46 (KLZ_WT15)	18:12			19:00			20:52	71	08:13 (KLZ_WT21)	21:38			22:05		
23	08:36		09:03 (KLZ_WT10)	07:45			06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46			05:30		
	17:19	17	16:48 (KLZ_WT15)	18:14			19:02	2	07:08 (SAM_WT04)	20:53	74	08:13 (KLZ_WT21)	21:40			22:05		
24	08:35		09:02 (KLZ_WT10)	07:43			06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44			05:30		
	17:21	22	16:50 (KLZ_WT15)	18:16			19:04	3	07:07 (SAM_WT04)	20:55	75	08:12 (KLZ_WT21)	21:41			22:05		
25	08:34		09:00 (KLZ_WT10)	07:41			06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43			05:31		
	17:22	25	16:51 (KLZ_WT15)	18:18			19:05	4	07:05 (SAM_WT04)	20:57	77	08:12 (KLZ_WT21)	21:42			22:05		
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31		
	17:24	30	16:54 (KLZ_WT15)	18:20	2	08:04 (CBR_WT01)	19:07			20:58	79	08:12 (KLZ_WT21)	21:43			22:05		
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41			05:32		
	17:26	34	16:55 (KLZ_WT15)	18:21	7	08:07 (CBR_WT01)	19:09			21:00	79	08:11 (KLZ_WT21)	21:45			22:05		
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40			05:32		
	17:28	38	16:57 (KLZ_WT15)	18:23	10	08:07 (CBR_WT01)	19:10			21:01	77	08:10 (KLZ_WT21)	21:46			22:05		
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39			05:33		
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	76	08:11 (KLZ_WT21)	21:47			22:05		
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22		07:01 (KLZ_WT23)	05:38			05:33		
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05	69	08:10 (KLZ_WT21)	21:48			22:04		
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37					
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1162			300			166			1328			636				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,98			0,98			0,98			0,98			0,98				
Wind dir. red.		0,68			0,66			0,56			0,64			0,64				
Total reduction		0,16			0,19			0,21			0,29			0,28				
Total, real		191			58			35			384			181				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:44 (KLZ_WT21)	06:57		07:35 (KLZ_WT21)	07:44		08:11 (SAM_WT05)	07:37		16:11 (KLZ_WT15)	08:26		12:53 (KLZ_WT22)
	22:04			21:34	22	08:06 (KLZ_WT21)	20:33	32	08:07 (KLZ_WT21)	19:25	6	08:17 (SAM_WT05)	17:21	11	16:22 (KLZ_WT15)	16:42	41	13:34 (KLZ_WT22)
2	05:34			06:11		07:23 (KLZ_WT23)	06:59		07:32 (SAM_WT07)	07:46		08:11 (SAM_WT05)	07:38		16:09 (KLZ_WT15)	08:27		12:53 (KLZ_WT22)
	22:04			21:32	27	08:08 (KLZ_WT21)	20:31	32	08:04 (KLZ_WT21)	19:23	8	08:19 (SAM_WT05)	17:19	15	16:24 (KLZ_WT15)	16:41	43	13:36 (KLZ_WT22)
3	05:35			06:12		07:18 (KLZ_WT23)	07:00		07:31 (SAM_WT07)	07:48		08:12 (SAM_WT05)	07:40		16:08 (KLZ_WT15)	08:29		12:52 (KLZ_WT22)
	22:04			21:30	40	08:10 (KLZ_WT21)	20:29	31	08:02 (KLZ_WT21)	19:21	7	08:19 (SAM_WT05)	17:17	18	16:26 (KLZ_WT15)	16:41	44	13:36 (KLZ_WT22)
4	05:36			06:14		07:16 (KLZ_WT23)	07:02		07:29 (SAM_WT07)	07:49		08:14 (SAM_WT05)	07:42		16:05 (KLZ_WT15)	08:30		12:53 (KLZ_WT22)
	22:03			21:29	45	08:10 (KLZ_WT21)	20:27	29	07:58 (KLZ_WT21)	19:19	6	08:20 (SAM_WT05)	17:16	21	16:26 (KLZ_WT15)	16:40	45	13:38 (KLZ_WT22)
5	05:37			06:15		07:15 (KLZ_WT23)	07:03		07:29 (SAM_WT07)	07:51		08:16 (SAM_WT05)	07:44		16:05 (KLZ_WT15)	08:31		12:53 (KLZ_WT22)
	22:03			21:27	51	08:12 (KLZ_WT21)	20:24	19	07:52 (KLZ_WT21)	19:16	11	08:39 (CBR_WT01)	17:14	22	16:27 (KLZ_WT15)	16:40	45	13:38 (KLZ_WT22)
6	05:38			06:17		07:13 (KLZ_WT23)	07:05		07:30 (SAM_WT07)	07:53		08:17 (SAM_WT05)	07:45		16:04 (KLZ_WT15)	08:33		09:06 (MXS_WT01)
	22:02			21:25	56	08:13 (KLZ_WT21)	20:22	13	07:43 (SAM_WT07)	19:14	13	08:41 (CBR_WT01)	17:12	24	16:28 (KLZ_WT15)	16:39	52	13:39 (KLZ_WT22)
7	05:38			06:18		07:13 (KLZ_WT23)	07:07		07:32 (SAM_WT07)	07:54		08:28 (CBR_WT01)	07:47		16:04 (KLZ_WT15)	08:34		09:07 (MXS_WT01)
	22:02			21:24	59	08:14 (KLZ_WT21)	20:20	11	07:43 (SAM_WT07)	19:12	14	08:42 (CBR_WT01)	17:11	24	16:28 (KLZ_WT15)	16:39	53	13:40 (KLZ_WT22)
8	05:39			06:20		07:11 (KLZ_WT23)	07:08		07:33 (SAM_WT07)	07:56		08:27 (CBR_WT01)	07:49		08:29 (KLZ_WT10)	08:35		09:07 (MXS_WT01)
	22:01			21:22	64	08:15 (KLZ_WT21)	20:18	9	07:42 (SAM_WT07)	19:10	16	08:43 (CBR_WT01)	17:09	33	16:29 (KLZ_WT15)	16:39	54	13:40 (KLZ_WT22)
9	05:40			06:21		07:11 (KLZ_WT23)	07:10		07:35 (SAM_WT07)	07:57		08:25 (CBR_WT01)	07:50		08:28 (KLZ_WT10)	08:36		09:08 (MXS_WT01)
	22:00			21:20	65	08:16 (KLZ_WT21)	20:15	7	07:42 (SAM_WT07)	19:08	18	08:43 (CBR_WT01)	17:07	36	16:29 (KLZ_WT15)	16:39	55	13:41 (KLZ_WT22)
10	05:41			06:23		07:10 (KLZ_WT23)	07:11		07:36 (SAM_WT07)	07:59		08:25 (CBR_WT01)	07:52		08:28 (KLZ_WT10)	08:37		09:09 (MXS_WT01)
	22:00			21:18	66	08:16 (KLZ_WT21)	20:13	6	07:42 (SAM_WT11)	19:05	18	08:43 (CBR_WT01)	17:06	38	16:30 (KLZ_WT15)	16:38	55	13:41 (KLZ_WT22)
11	05:42			06:24		07:09 (KLZ_WT23)	07:13		07:38 (SAM_WT11)	08:01		08:26 (CBR_WT01)	07:54		08:27 (KLZ_WT10)	08:38		09:10 (MXS_WT01)
	21:59			21:16	68	08:17 (KLZ_WT21)	20:11	6	07:44 (SAM_WT11)	19:03	17	08:43 (CBR_WT01)	17:04	40	16:30 (KLZ_WT15)	16:38	55	13:42 (KLZ_WT22)
12	05:43			06:26		07:09 (KLZ_WT23)	07:14		07:39 (SAM_WT11)	08:02		08:28 (CBR_WT01)	07:56		08:26 (KLZ_WT10)	08:39		09:11 (MXS_WT01)
	21:58			21:14	69	08:18 (KLZ_WT21)	20:09	5	07:44 (SAM_WT11)	19:01	14	08:42 (CBR_WT01)	17:03	40	16:29 (KLZ_WT15)	16:38	55	13:42 (KLZ_WT22)
13	05:44			06:27		07:09 (KLZ_WT23)	07:16		07:41 (SAM_WT11)	08:04		08:29 (CBR_WT01)	07:57		08:27 (KLZ_WT10)	08:40		09:12 (MXS_WT01)
	21:57			21:13	68	08:17 (KLZ_WT21)	20:06	3	07:44 (SAM_WT11)	18:59	12	08:41 (CBR_WT01)	17:01	39	16:29 (KLZ_WT15)	16:38	55	13:43 (KLZ_WT22)
14	05:45			06:29		07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06		08:31 (CBR_WT01)	07:59		08:28 (KLZ_WT10)	08:41		09:13 (MXS_WT01)
	21:56			21:11	76	08:18 (KLZ_WT21)	20:04	1	07:43 (SAM_WT11)	18:57	9	08:40 (CBR_WT01)	17:00	38	16:29 (KLZ_WT15)	16:38	55	13:44 (KLZ_WT22)
15	05:46			06:30		07:00 (SAM_WT06)	07:19			08:07		08:33 (CBR_WT01)	08:01		08:30 (KLZ_WT10)	08:42		09:14 (MXS_WT01)
	21:56			21:09	78	08:18 (KLZ_WT21)	20:02			18:55	5	08:38 (CBR_WT01)	16:59	34	16:28 (KLZ_WT15)	16:38	54	13:44 (KLZ_WT22)
16	05:48			06:32		07:00 (SAM_WT06)	07:21			08:09			08:02		08:32 (KLZ_WT10)	08:43		09:15 (MXS_WT01)
	21:55			21:07	79	08:19 (KLZ_WT21)	20:00			18:53			16:57	30	16:27 (KLZ_WT15)	16:38	55	13:45 (KLZ_WT22)
17	05:49			06:34		07:00 (SAM_WT06)	07:22			08:11			08:04		08:34 (KLZ_WT10)	08:44		09:16 (MXS_WT01)
	21:54			21:05	78	08:18 (KLZ_WT21)	19:57			18:50			16:56	25	16:25 (KLZ_WT15)	16:38	54	13:46 (KLZ_WT22)
18	05:50			06:35		07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12			08:06		08:36 (KLZ_WT10)	08:45		09:16 (MXS_WT01)
	21:52			21:03	77	08:19 (KLZ_WT21)	19:55	4	07:53 (SAM_WT04)	18:48			16:55	22	16:24 (KLZ_WT15)	16:39	55	13:46 (KLZ_WT22)
19	05:51			06:37		07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14			08:07		08:37 (KLZ_WT10)	08:45		09:17 (MXS_WT01)
	21:51			21:01	75	08:18 (KLZ_WT21)	19:53	4	07:54 (SAM_WT04)	18:46			16:53	17	16:22 (KLZ_WT15)	16:39	54	13:46 (KLZ_WT22)
20	05:53			06:38		07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16			08:09		08:39 (MVN_WT01)	08:46		09:18 (MXS_WT01)
	21:50			20:59	73	08:18 (KLZ_WT21)	19:50	3	07:55 (SAM_WT04)	18:44			16:52	14	16:21 (KLZ_WT15)	16:39	54	13:47 (KLZ_WT22)
21	05:54			06:40		07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18			08:11		08:41 (MVN_WT01)	08:47		09:18 (MXS_WT01)
	21:49			20:57	71	08:18 (KLZ_WT21)	19:48	1	07:54 (SAM_WT04)	18:42			16:51	24	16:20 (KLZ_WT15)	16:40	54	13:47 (KLZ_WT22)
22	05:55			06:41		07:08 (SAM_WT06)	07:30			08:19			08:12		13:01 (KLZ_WT22)	08:47		09:19 (MXS_WT01)
	21:48			20:55	65	08:18 (KLZ_WT21)	19:46			18:40			16:50	25	16:19 (KLZ_WT15)	16:40	54	13:48 (KLZ_WT22)
23	05:56			06:43		07:16 (KLZ_WT23)	07:32			08:21			08:14		12:59 (KLZ_WT22)	08:48		09:19 (MXS_WT01)
	21:47			20:53	57	08:17 (KLZ_WT21)	19:44			18:38			16:49	25	13:24 (KLZ_WT22)	16:41	54	13:48 (KLZ_WT22)
24	05:58			06:45		07:30 (KLZ_WT21)	07:33			08:23		08:57 (KLZ_WT11)	08:16		12:58 (KLZ_WT22)	08:48		09:19 (MXS_WT01)
	21:45			20:50	47	08:17 (KLZ_WT21)	19:41			18:36	3	09:00 (KLZ_WT11)	16:48	28	13:26 (KLZ_WT22)	16:41	54	13:48 (KLZ_WT22)
25	05:59			06:46		07:29 (KLZ_WT21)	07:35			07:24		07:55 (KLZ_WT11)	08:17		12:57 (KLZ_WT22)	08:48		09:20 (MXS_WT01)
	21:44			20:48	46	08:15 (KLZ_WT21)	19:39			17:34	7	08:02 (KLZ_WT11)	16:47	31	13:28 (KLZ_WT22)	16:42	54	13:49 (KLZ_WT22)
26	06:00			06:48		07:30 (KLZ_WT21)	07:36			07:26		07:54 (KLZ_WT11)	08:19		12:55 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:43			20:46	45	08:15 (KLZ_WT21)	19:37			17:32	10	08:04 (KLZ_WT11)	16:46	34	13:29 (KLZ_WT22)	16:43	54	13:50 (KLZ_WT22)
27	06:02			06:49		07:30 (KLZ_WT21)	07:38			07:28		07:54 (KLZ_WT11)	08:20		12:55 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:41			20:44	44	08:14 (KLZ_WT21)	19:34			17:30	9	08:03 (KLZ_WT11)	16:45	35	13:30 (KLZ_WT22)	16:43	55	13:50 (KLZ_WT22)
28	06:03			06:51		07:31 (KLZ_WT21)	07:40			07:30		07:56 (KLZ_WT11)	08:22		12:54 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:40			20:42	42	08:13 (KLZ_WT21)	19:32			17:28	8	08:04 (KLZ_WT11)	16:44	38	13:32 (KLZ_WT22)	16:44	55	13:50 (KLZ_WT22)
29	06:05			06:52		07:31 (KLZ_WT21)	07:41			07:31		07:58 (KLZ_WT11)	08:23		12:53 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:38			20:40	40	08:11 (KLZ_WT21)	19:30			17:27	6	08:04 (KLZ_WT11)	16:44	40	13:33 (KLZ_WT22)	16:45	54	13:50 (KLZ_WT22)
30	06:06		07:49 (KLZ_WT21)	06:54		07:33 (KLZ_WT21)	07:43			07:33		08:00 (KLZ_WT11)	08:25		12:54 (KLZ_WT22)	08:50		09:20 (MXS_WT01)
	21:37	11	08:00 (KLZ_WT21)	20:38	37	08:10 (KLZ_WT21)	19:28			17:25	3	08:03 (KLZ_WT11)	16:43	40	13:34 (KLZ_WT22)	16:46	54	13:51 (KLZ_WT22)
31	06:08		07:47 (KLZ_WT21)	06:56		07:33 (KLZ_WT21)				07:35						08:50		09:20 (MXS_WT01)
	21:35	17	08:04 (KLZ_WT21)	20:35	35	08:08 (KLZ_WT21)				17:23						16:47	55	13:51 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		28			1765			216			220			861			1630	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,64			0,63			0,55			0,68			0,68	
Total reduction		0,28			0,29			0,27			0,20			0,18			0,15	
Total, real		8			514			58			43			153			243	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		08:50 (SAM_WT04)	07:32		07:55 (KLZ_WT17)	07:23		07:45 (KLZ_WT01)	06:20			05:36		06:17 (TEN_WT01)
	16:48	114	15:57 (KLZ_WT13)	17:35	15	16:50 (EVE_WT02)	18:25	34	17:42 (EVE_WT01)	20:17	6	07:51 (KLZ_WT01)	21:06			21:51	16	06:33 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		07:53 (KLZ_WT17)	07:21		07:46 (KLZ_WT01)	06:18			05:36		06:19 (TEN_WT01)
	16:49	112	15:57 (KLZ_WT13)	17:36	12	16:48 (EVE_WT02)	18:26	36	17:41 (EVE_WT01)	20:19	2	07:48 (KLZ_WT01)	21:08			21:52	14	06:33 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		07:51 (KLZ_WT17)	07:19			06:16			05:35		06:19 (TEN_WT01)
	16:50	112	15:58 (KLZ_WT13)	17:38	7	09:09 (KLZ_WT05)	18:28	35	17:39 (EVE_WT01)	20:20			21:10			21:53	14	06:33 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT11)	07:26		07:49 (KLZ_WT17)	07:17			06:15			05:34		06:19 (TEN_WT01)
	16:51	110	15:57 (KLZ_WT13)	17:40	16	09:14 (KLZ_WT05)	18:30	32	17:36 (EVE_WT01)	20:22			21:11			21:54	13	06:32 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT11)	07:24		07:46 (SAM_WT08)	07:14			06:13			05:33		06:20 (TEN_WT01)
	16:52	109	15:58 (KLZ_WT13)	17:42	21	09:16 (KLZ_WT05)	18:32	26	08:12 (KLZ_WT04)	20:24			21:13			21:55	12	06:32 (TEN_WT01)
6	08:49		09:19 (SAM_WT05)	08:16		08:41 (SAM_WT11)	07:21		07:44 (SAM_WT08)	07:12			06:11			05:33		06:21 (TEN_WT01)
	16:54	107	15:57 (KLZ_WT13)	17:44	25	09:17 (KLZ_WT05)	18:33	28	08:12 (KLZ_WT04)	20:25			21:14			21:56	10	06:31 (TEN_WT01)
7	08:48		09:21 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		07:42 (KLZ_WT17)	07:10			06:09			05:32		06:22 (TEN_WT01)
	16:55	102	15:58 (KLZ_WT13)	17:45	29	09:18 (KLZ_WT05)	18:35	30	08:12 (KLZ_WT04)	20:27			21:16			21:57	9	06:31 (TEN_WT01)
8	08:48		09:36 (KLZ_WT23)	08:13		08:57 (KLZ_WT05)	07:17		07:40 (KLZ_WT17)	07:08			06:08			05:32		06:23 (TEN_WT01)
	16:56	94	15:57 (KLZ_WT13)	17:47	23	09:20 (KLZ_WT05)	18:37	32	08:12 (KLZ_WT04)	20:29			21:17			21:57	6	06:29 (TEN_WT01)
9	08:48		09:37 (KLZ_WT23)	08:11		08:56 (KLZ_WT05)	07:15		07:39 (KLZ_WT17)	07:05			06:06			05:31		06:24 (TEN_WT01)
	16:58	90	15:57 (KLZ_WT13)	17:49	25	09:21 (KLZ_WT05)	18:39	33	08:12 (KLZ_WT17)	20:30			21:19			21:58	5	06:29 (TEN_WT01)
10	08:47		09:37 (KLZ_WT23)	08:09		08:55 (KLZ_WT05)	07:13		07:38 (KLZ_WT17)	07:03			06:04			05:31		
	16:59	85	15:56 (KLZ_WT13)	17:51	26	09:21 (KLZ_WT05)	18:40	32	08:10 (KLZ_WT17)	20:32			21:21			21:59		
11	08:47		09:37 (KLZ_WT23)	08:08		08:55 (KLZ_WT05)	07:10		07:38 (KLZ_WT17)	07:01			06:03		06:28 (EAM_WT02)	05:31		
	17:00	75	15:55 (KLZ_WT13)	17:53	27	09:22 (KLZ_WT05)	18:42	32	08:10 (KLZ_WT17)	20:34			21:22	1	06:29 (EAM_WT02)	22:00		
12	08:46		09:38 (KLZ_WT23)	08:06		08:54 (KLZ_WT05)	07:08		07:39 (KLZ_WT17)	06:59			06:01			05:30		
	17:02	65	15:56 (KLZ_WT12)	17:54	28	09:22 (KLZ_WT05)	18:44	31	08:10 (KLZ_WT17)	20:35			21:24			22:00		
13	08:45		09:39 (KLZ_WT23)	08:04		08:54 (KLZ_WT05)	07:06		07:39 (KLZ_WT17)	06:57			05:59		06:25 (EAM_WT01)	05:30		
	17:03	65	15:56 (KLZ_WT12)	17:56	28	09:22 (KLZ_WT05)	18:45	30	08:09 (KLZ_WT17)	20:37			21:25	2	06:27 (EAM_WT01)	22:01		
14	08:45		09:39 (KLZ_WT23)	08:02		08:26 (SAM_WT06)	07:04		07:39 (KLZ_WT17)	06:55			05:58		06:23 (EAM_WT01)	05:30		
	17:05	64	15:56 (KLZ_WT12)	17:58	30	09:22 (KLZ_WT05)	18:47	28	08:07 (KLZ_WT17)	20:38			21:27	4	06:27 (TEN_WT01)	22:02		
15	08:44		09:39 (KLZ_WT23)	08:00		08:24 (SAM_WT06)	07:02		07:40 (KLZ_WT17)	06:52			05:56		06:22 (EAM_WT01)	05:30		
	17:06	63	15:56 (KLZ_WT12)	18:00	34	09:22 (KLZ_WT05)	18:49	26	08:06 (KLZ_WT17)	20:40			21:28	7	06:29 (TEN_WT01)	22:02		
16	08:43		09:40 (KLZ_WT23)	07:58		08:22 (SAM_WT06)	06:59		07:41 (KLZ_WT17)	06:50			05:55		06:21 (EAM_WT01)	05:29		
	17:08	64	16:35 (EVE_WT02)	18:02	43	17:34 (EVE_WT01)	18:50	23	08:04 (KLZ_WT17)	20:42			21:30	10	06:31 (TEN_WT01)	22:03		
17	08:42		09:10 (SAM_WT07)	07:57		08:20 (SAM_WT06)	06:57		07:42 (KLZ_WT17)	06:48			05:53		06:19 (TEN_WT01)	05:29		
	17:09	67	16:37 (EVE_WT02)	18:03	48	17:36 (EVE_WT01)	18:52	19	08:01 (KLZ_WT17)	20:43			21:31	12	06:31 (TEN_WT01)	22:03		
18	08:41		09:09 (SAM_WT07)	07:55		08:18 (SAM_WT06)	06:55		07:44 (KLZ_WT17)	06:46			05:52		06:18 (TEN_WT01)	05:29		
	17:11	70	16:39 (EVE_WT02)	18:05	54	17:38 (EVE_WT01)	18:54	15	07:59 (KLZ_WT17)	20:45			21:33	14	06:32 (TEN_WT01)	22:04		
19	08:40		09:08 (SAM_WT07)	07:53		08:16 (SAM_WT06)	06:53		07:49 (KLZ_WT17)	06:44			05:51		06:17 (TEN_WT01)	05:29		
	17:12	72	16:41 (EVE_WT02)	18:07	57	17:40 (EVE_WT01)	18:55	5	07:54 (KLZ_WT17)	20:47			21:34	16	06:33 (TEN_WT01)	22:04		
20	08:39		09:07 (SAM_WT07)	07:51		08:15 (SAM_WT06)	06:50			06:42			05:49		06:16 (TEN_WT01)	05:30		
	17:14	74	16:43 (EVE_WT02)	18:09	57	17:42 (EVE_WT01)	18:57			20:48			21:35	18	06:34 (TEN_WT01)	22:04		
21	08:38		09:05 (SAM_WT07)	07:49		08:16 (SAM_WT06)	06:48			06:40			05:48		06:15 (TEN_WT01)	05:30		
	17:16	74	16:44 (EVE_WT02)	18:11	56	17:44 (EVE_WT01)	18:59			20:50			21:37	18	06:33 (TEN_WT01)	22:04		
22	08:37		09:04 (SAM_WT07)	07:47		08:16 (SAM_WT06)	06:46			06:38		07:01 (SAM_WT10)	05:47		06:15 (TEN_WT01)	05:30		
	17:17	75	16:46 (EVE_WT02)	18:12	52	17:46 (EVE_WT01)	19:00			20:52	2	07:03 (SAM_WT10)	21:38	19	06:34 (TEN_WT01)	22:05		
23	08:36		09:03 (SAM_WT07)	07:45		08:18 (SAM_WT06)	06:44			06:36		06:59 (SAM_WT10)	05:46		06:15 (TEN_WT01)	05:30		
	17:19	74	16:48 (EVE_WT02)	18:14	41	17:46 (EVE_WT01)	19:02			20:53	3	07:02 (SAM_WT10)	21:40	19	06:34 (TEN_WT01)	22:05		
24	08:35		09:02 (SAM_WT07)	07:43		08:20 (SAM_WT06)	06:41		07:04 (KLZ_WT02)	06:34		06:57 (SAM_WT10)	05:44		06:15 (TEN_WT01)	05:30		
	17:21	71	16:50 (EVE_WT02)	18:16	32	17:46 (EVE_WT01)	19:04	1	07:05 (KLZ_WT02)	20:55	5	07:02 (SAM_WT10)	21:41	19	06:34 (TEN_WT01)	22:05		
25	08:34		09:01 (SAM_WT07)	07:41		17:20 (EVE_WT01)	06:39		07:01 (KLZ_WT02)	06:32		06:55 (SAM_WT10)	05:43		06:15 (TEN_WT01)	05:31		
	17:22	68	16:51 (EVE_WT02)	18:18	26	17:46 (EVE_WT01)	19:05	4	07:05 (KLZ_WT02)	20:57	6	07:01 (SAM_WT10)	21:42	19	06:34 (TEN_WT01)	22:05		
26	08:32		09:01 (SAM_WT07)	07:38		17:20 (EVE_WT01)	06:37		06:59 (KLZ_WT02)	06:30		06:53 (SAM_WT10)	05:42		06:15 (TEN_WT01)	05:31		
	17:24	55	16:53 (EVE_WT02)	18:19	26	17:46 (EVE_WT01)	19:07	6	07:05 (KLZ_WT02)	20:58	6	06:59 (SAM_WT10)	21:43	19	06:34 (TEN_WT01)	22:05		
27	08:31		09:02 (SAM_WT07)	07:36		08:00 (KLZ_WT17)	06:35		06:57 (KLZ_WT02)	06:28		06:52 (SAM_WT10)	05:41		06:15 (TEN_WT01)	05:32		
	17:26	47	16:52 (EVE_WT02)	18:21	27	17:45 (EVE_WT01)	19:09	8	07:05 (KLZ_WT02)	21:00	5	06:57 (SAM_WT10)	21:45	19	06:34 (TEN_WT01)	22:05		
28	08:30		09:03 (SAM_WT07)	07:34		07:57 (KLZ_WT17)	06:32		06:54 (KLZ_WT02)	06:26			05:40		06:15 (TEN_WT01)	05:32		
	17:28	38	16:53 (EVE_WT02)	18:23	30	17:43 (EVE_WT01)	19:10	10	07:04 (KLZ_WT02)	21:01			21:46	19	06:34 (TEN_WT01)	22:05		
29	08:28		09:03 (SAM_WT07)				07:30		07:52 (KLZ_WT01)	06:24			05:39		06:17 (TEN_WT01)	05:33		
	17:29	31	16:52 (EVE_WT02)				20:12	9	08:03 (KLZ_WT02)	21:03			21:47	17	06:34 (TEN_WT01)	22:05		
30	08:27		09:06 (SAM_WT07)				07:28		07:50 (KLZ_WT01)	06:22			05:38		06:17 (TEN_WT01)	05:33		
	17:31	25	16:52 (EVE_WT02)				20:14	5	08:00 (KLZ_WT02)	21:05			21:48	17	06:34 (TEN_WT01)	22:05		
31	08:26		08:51 (SAM_WT04)				07:25		07:48 (KLZ_WT01)				05:37		06:17 (TEN_WT01)			
	17:33	18	16:51 (EVE_WT02)				20:15	5	07:53 (KLZ_WT01)				21:49	17	06:34 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2290			895			575			35			286			99	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,66			0,59			0,57			0,65			0,70			0,70	
Total reduction		0,16			0,17			0,21			0,29			0,31			0,30	
Total, real		365			156			121			10			89			30	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 4 - Ooievaarstraat 7, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09			06:57			07:44		08:18 (KLZ_WT17)	07:37		08:25 (KLZ_WT05)	08:26		09:19 (KLZ_WT23)
	22:04			21:34			20:33			19:25	30	08:48 (KLZ_WT17)	17:21	26	08:51 (KLZ_WT05)	16:42	74	15:37 (KLZ_WT13)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT17)	07:38		08:26 (KLZ_WT05)	08:27		09:20 (KLZ_WT23)
	22:04			21:32			20:31			19:23	32	08:49 (KLZ_WT17)	17:19	24	08:50 (KLZ_WT05)	16:41	82	15:39 (KLZ_WT13)
3	05:35		06:30 (TEN_WT01)	06:12			07:00			07:48		08:16 (KLZ_WT17)	07:40		08:12 (SAM_WT11)	08:29		09:20 (KLZ_WT23)
	22:04	3	06:33 (TEN_WT01)	21:30			20:29			19:21	32	08:48 (KLZ_WT17)	17:17	26	08:50 (KLZ_WT05)	16:41	90	15:40 (KLZ_WT13)
4	05:36		06:29 (TEN_WT01)	06:13			07:02			07:49		08:16 (KLZ_WT17)	07:42		08:09 (SAM_WT11)	08:30		09:21 (KLZ_WT23)
	22:03	6	06:35 (TEN_WT01)	21:29			20:27			19:19	32	08:48 (KLZ_WT17)	17:16	29	08:48 (KLZ_WT05)	16:40	94	15:42 (KLZ_WT13)
5	05:37		06:28 (TEN_WT01)	06:15			07:03			07:51		08:16 (KLZ_WT17)	07:44		08:11 (SAM_WT11)	08:31		09:06 (SAM_WT05)
	22:03	8	06:36 (TEN_WT01)	21:27			20:24			19:16	32	08:48 (KLZ_WT04)	17:14	25	08:47 (KLZ_WT05)	16:40	102	15:43 (KLZ_WT13)
6	05:37		06:27 (TEN_WT01)	06:16			07:05			07:53		08:17 (KLZ_WT17)	07:45		08:13 (SAM_WT11)	08:33		09:05 (SAM_WT05)
	22:02	10	06:37 (TEN_WT01)	21:25			20:22			19:14	31	08:48 (KLZ_WT04)	17:12	21	08:46 (KLZ_WT05)	16:39	106	15:43 (KLZ_WT13)
7	05:38		06:27 (TEN_WT01)	06:18			07:07			07:54		08:19 (SAM_WT08)	07:47		08:15 (SAM_WT11)	08:34		09:06 (SAM_WT05)
	22:02	11	06:38 (TEN_WT01)	21:24			20:20			19:12	29	08:48 (KLZ_WT04)	17:11	16	08:44 (KLZ_WT05)	16:39	109	15:45 (KLZ_WT13)
8	05:39		06:27 (TEN_WT01)	06:20			07:08			07:56		08:21 (SAM_WT08)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	12	06:39 (TEN_WT01)	21:22			20:18			19:10	27	08:48 (KLZ_WT04)	17:09	5	08:22 (SAM_WT04)	16:39	110	15:45 (KLZ_WT13)
9	05:40		06:26 (TEN_WT01)	06:21			07:10			07:57		08:22 (KLZ_WT17)	07:51		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:20			20:15			19:08	25	08:47 (KLZ_WT04)	17:07	13	16:19 (EVE_WT02)	16:38	111	15:46 (KLZ_WT13)
10	05:41		06:26 (TEN_WT01)	06:23			07:11			07:59		08:24 (KLZ_WT17)	07:52		08:21 (SAM_WT04)	08:37		09:09 (SAM_WT05)
	22:00	14	06:40 (TEN_WT01)	21:18			20:13			19:05	33	18:12 (EVE_WT01)	17:06	15	16:21 (EVE_WT02)	16:38	112	15:46 (KLZ_WT13)
11	05:42		06:26 (TEN_WT01)	06:24			07:13		07:38 (KLZ_WT01)	08:01		08:26 (KLZ_WT17)	07:54		08:23 (SAM_WT04)	08:38		09:10 (SAM_WT05)
	21:59	15	06:41 (TEN_WT01)	21:16			20:11	6	07:44 (KLZ_WT01)	19:03	36	18:14 (EVE_WT01)	17:04	20	16:23 (EVE_WT02)	16:38	114	15:47 (KLZ_WT13)
12	05:43		06:26 (TEN_WT01)	06:26			07:14		07:39 (KLZ_WT01)	08:02		08:28 (KLZ_WT17)	07:56		08:36 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	16	06:42 (TEN_WT01)	21:14			20:09	5	07:44 (KLZ_WT01)	19:01	35	18:16 (EVE_WT01)	17:03	26	16:23 (EVE_WT02)	16:38	113	15:48 (KLZ_WT13)
13	05:44		06:25 (TEN_WT01)	06:27			07:16		07:41 (KLZ_WT01)	08:04		08:29 (KLZ_WT17)	07:57		08:35 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	17	06:42 (TEN_WT01)	21:13			20:06	3	07:44 (KLZ_WT01)	18:59	34	18:16 (EVE_WT01)	17:01	31	16:24 (EVE_WT02)	16:38	114	15:48 (KLZ_WT13)
14	05:45		06:25 (TEN_WT01)	06:29			07:17		07:42 (KLZ_WT01)	08:06		08:31 (KLZ_WT17)	07:59		08:35 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:57	18	06:43 (TEN_WT01)	21:11			20:04	8	07:53 (KLZ_WT02)	18:57	30	18:17 (EVE_WT01)	17:00	37	16:24 (EVE_WT02)	16:38	114	15:49 (KLZ_WT13)
15	05:46		06:25 (TEN_WT01)	06:30			07:19		07:45 (KLZ_WT02)	08:07		17:53 (EVE_WT01)	08:01		08:34 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56	18	06:43 (TEN_WT01)	21:09			20:02	9	07:54 (KLZ_WT02)	18:55	25	18:18 (EVE_WT01)	16:59	48	16:25 (EVE_WT02)	16:38	114	15:50 (KLZ_WT13)
16	05:48		06:25 (TEN_WT01)	06:32		06:59 (SAM_WT10)	07:21		07:45 (KLZ_WT02)	08:09		17:52 (EVE_WT01)	08:03		08:34 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55	18	06:43 (TEN_WT01)	21:07	6	07:05 (SAM_WT10)	20:00	9	07:54 (KLZ_WT02)	18:52	26	18:18 (EVE_WT01)	16:57	55	16:26 (EVE_WT02)	16:38	115	15:50 (KLZ_WT13)
17	05:49		06:25 (TEN_WT01)	06:34		07:00 (SAM_WT10)	07:22		07:47 (KLZ_WT02)	08:11		17:51 (EVE_WT01)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54	19	06:44 (TEN_WT01)	21:05	6	07:06 (SAM_WT10)	19:57	7	07:54 (KLZ_WT02)	18:50	26	18:17 (EVE_WT01)	16:56	69	16:25 (EVE_WT02)	16:38	116	15:51 (KLZ_WT13)
18	05:50		06:24 (TEN_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:49 (KLZ_WT02)	08:12		08:50 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53	20	06:44 (TEN_WT01)	21:03	5	07:07 (SAM_WT10)	19:55	5	07:54 (KLZ_WT02)	18:48	35	18:17 (EVE_WT01)	16:55	71	16:24 (EVE_WT02)	16:39	119	15:51 (KLZ_WT13)
19	05:51		06:24 (TEN_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (KLZ_WT02)	08:14		08:49 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	20	06:44 (TEN_WT01)	21:01	4	07:07 (SAM_WT10)	19:53	2	07:52 (KLZ_WT02)	18:46	45	18:17 (EVE_WT01)	16:53	74	16:22 (EVE_WT02)	16:39	121	15:52 (KLZ_WT13)
20	05:52		06:24 (TEN_WT01)	06:38		07:05 (SAM_WT10)	07:27			08:16		08:48 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	20	06:44 (TEN_WT01)	20:59	3	07:08 (SAM_WT10)	19:50			18:44	52	18:16 (EVE_WT01)	16:52	75	16:21 (EVE_WT02)	16:39	122	15:53 (KLZ_WT13)
21	05:54		06:25 (TEN_WT01)	06:40		07:06 (SAM_WT10)	07:28			08:18		08:46 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	19	06:44 (TEN_WT01)	20:57	1	07:07 (SAM_WT10)	19:48			18:42	57	18:14 (EVE_WT01)	16:51	75	16:20 (EVE_WT02)	16:40	122	15:53 (KLZ_WT13)
22	05:55		06:25 (TEN_WT01)	06:41			07:30			08:19		08:46 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	19	06:44 (TEN_WT01)	20:55			19:46			18:40	57	18:12 (EVE_WT01)	16:50	74	16:19 (EVE_WT02)	16:40	121	15:53 (KLZ_WT13)
23	05:56		06:25 (TEN_WT01)	06:43			07:32			08:21		08:47 (SAM_WT06)	08:14		08:44 (SAM_WT07)	08:48		09:19 (SAM_WT05)
	21:47	19	06:44 (TEN_WT01)	20:53			19:44			18:38	56	18:10 (EVE_WT01)	16:49	72	16:17 (EVE_WT02)	16:41	122	15:54 (KLZ_WT13)
24	05:58		06:26 (TEN_WT01)	06:44			07:33			08:23		08:49 (SAM_WT06)	08:16		08:46 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:45	17	06:43 (TEN_WT01)	20:50			19:41			18:36	53	18:08 (EVE_WT01)	16:48	69	16:16 (EVE_WT02)	16:41	120	15:55 (KLZ_WT13)
25	05:59		06:28 (TEN_WT01)	06:46			07:35		08:28 (KLZ_WT17)	07:24		07:51 (SAM_WT06)	08:17		08:48 (SAM_WT07)	08:48		09:20 (SAM_WT05)
	21:44	15	06:43 (TEN_WT01)	20:48			19:39	13	08:41 (KLZ_WT17)	17:34	47	17:06 (EVE_WT01)	16:47	67	16:15 (EVE_WT02)	16:42	120	15:55 (KLZ_WT13)
26	06:00		06:29 (TEN_WT01)	06:48			07:36		08:25 (KLZ_WT17)	07:26		07:53 (SAM_WT06)	08:19		09:18 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:43	13	06:42 (TEN_WT01)	20:46			19:37	18	08:43 (KLZ_WT17)	17:32	40	17:04 (EVE_WT01)	16:46	65	16:14 (EVE_WT02)	16:43	117	15:55 (KLZ_WT13)
27	06:02		06:30 (TEN_WT01)	06:49			07:38		08:24 (KLZ_WT17)	07:28		07:54 (SAM_WT06)	08:20		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:41	11	06:41 (TEN_WT01)	20:44			19:34	22	08:46 (KLZ_WT17)	17:30	33	08:51 (KLZ_WT05)	16:45	62	15:35 (KLZ_WT12)	16:43	115	15:55 (KLZ_WT13)
28	06:03		06:32 (EAM_WT01)	06:51			07:40		08:21 (KLZ_WT17)	07:30		07:56 (SAM_WT06)	08:22		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:40	9	06:41 (TEN_WT01)	20:42			19:32	25	08:46 (KLZ_WT17)	17:28	29	08:51 (KLZ_WT05)	16:44	64	15:36 (KLZ_WT12)	16:44	114	15:55 (KLZ_WT13)
29	06:05		06:33 (EAM_WT01)	06:52			07:41		08:20 (KLZ_WT17)	07:31		08:24 (KLZ_WT05)	08:23		09:19 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:38	6	06:39 (TEN_WT01)	20:40			19:30	27	08:47 (KLZ_WT17)	17:26	28	08:52 (KLZ_WT05)	16:43	64	15:36 (KLZ_WT12)	16:45	113	15:56 (KLZ_WT13)
30	06:06		06:34 (EAM_WT01)	06:54			07:43		08:18 (KLZ_WT17)	07:33		08:24 (KLZ_WT05)	08:25		09:19 (KLZ_WT23)	08:50		09:20 (SAM_WT05)
	21:37	2	06:36 (EAM_WT01)	20:38			19:28	29	08:47 (KLZ_WT17)	17:25	28	08:52 (KLZ_WT05)	16:43	66	15:37 (KLZ_WT12)	16:46	115	15:56 (KLZ_WT13)
31	06:08		06:36 (EAM_WT01)	06:55						07:35		08:24 (KLZ_WT05)				08:50		09:20 (SAM_WT05)
	21:35	1	06:37 (EAM_WT01)	20:35						17:23	27	08:51 (KLZ_WT05)				16:47	113	15:56 (KLZ_WT13)
Potential sun hours	498			452			380			333			269			248		
Total, worst case	390			25			188			1102			1384			3444		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,70			0,66			0,57			0,59			0,64			0,67		
Total reduction	0,30			0,30			0,24			0,21			0,17			0,15		
Total, real	119			7			46			231			231			508		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32		08:12 (SAM_WT06)	07:23			06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	144	14:59 (KLZ_WT20)	17:35	87	17:05 (EVE_WT02)	18:25	48	17:59 (EVE_WT01)	20:17			21:06	6	06:50 (SAM_WT10)	21:51	9	06:13 (TEN_WT01)
2	08:50		09:20 (SAM_WT05)	08:23		08:48 (SAM_WT04)	07:30		08:32 (KLZ_WT05)	07:21		07:43 (KLZ_WT02)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	146	14:59 (KLZ_WT20)	17:36	83	17:07 (EVE_WT02)	18:26	47	18:01 (EVE_WT01)	20:19	3	07:46 (KLZ_WT02)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:46 (SAM_WT04)	07:28		08:32 (KLZ_WT05)	07:19		07:41 (KLZ_WT02)	06:16		06:40 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	145	15:00 (KLZ_WT20)	17:38	77	17:09 (EVE_WT02)	18:28	50	18:03 (EVE_WT01)	20:20	6	07:47 (KLZ_WT02)	21:10	7	06:47 (SAM_WT10)	21:53	12	06:15 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:32 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:40 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	148	15:00 (KLZ_WT20)	17:40	56	17:11 (EVE_WT02)	18:30	54	18:05 (EVE_WT01)	20:22	8	07:47 (KLZ_WT02)	21:11	6	06:46 (SAM_WT10)	21:54	13	06:15 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:31 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	147	15:00 (KLZ_WT20)	17:42	59	17:13 (EVE_WT02)	18:32	55	18:06 (EVE_WT01)	20:24	10	07:47 (KLZ_WT02)	21:13			21:55	14	06:16 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:31 (KLZ_WT05)	07:12		07:34 (KLZ_WT01)	06:11			05:33		06:01 (TEN_WT01)
	16:54	149	16:20 (KLZ_WT13)	17:44	62	17:15 (EVE_WT02)	18:33	58	18:08 (EVE_WT01)	20:25	12	07:46 (KLZ_WT02)	21:14			21:56	15	06:16 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT11)	07:19		08:32 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	151	16:22 (KLZ_WT13)	17:45	64	17:16 (EVE_WT02)	18:35	58	18:10 (EVE_WT01)	20:27	13	07:45 (KLZ_WT02)	21:16			21:57	16	06:17 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT11)	07:17		07:40 (SAM_WT08)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	155	16:23 (KLZ_WT13)	17:47	66	17:18 (EVE_WT02)	18:37	60	18:10 (EVE_WT01)	20:29	12	07:43 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:19 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	154	16:25 (KLZ_WT13)	17:49	66	17:18 (EVE_WT02)	18:39	62	18:10 (EVE_WT01)	20:30	7	07:35 (KLZ_WT01)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:20 (SAM_WT05)	08:09		08:35 (SAM_WT11)	07:13		07:35 (KLZ_WT17)	07:03		07:30 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	154	16:26 (KLZ_WT13)	17:51	63	17:17 (EVE_WT02)	18:40	65	18:09 (EVE_WT01)	20:32	3	07:33 (KLZ_WT01)	21:21			21:59	18	06:18 (TEN_WT01)
11	08:46		09:22 (SAM_WT05)	08:08		08:37 (SAM_WT11)	07:10		07:33 (KLZ_WT17)	07:01			06:03			05:31		06:00 (TEN_WT01)
	17:00	148	16:27 (KLZ_WT13)	17:53	57	17:16 (EVE_WT02)	18:42	66	18:08 (EVE_WT01)	20:34			21:22			22:00	19	06:19 (TEN_WT01)
12	08:46		09:37 (KLZ_WT23)	08:06		16:21 (KLZ_WT12)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	149	16:29 (KLZ_WT13)	17:54	49	17:15 (EVE_WT02)	18:44	63	18:07 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		09:37 (KLZ_WT23)	08:04		16:21 (KLZ_WT12)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	149	16:31 (KLZ_WT13)	17:56	45	17:13 (EVE_WT02)	18:45	60	18:06 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		09:37 (KLZ_WT23)	08:02		16:22 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:00 (TEN_WT01)
	17:05	148	16:32 (KLZ_WT13)	17:58	35	17:09 (EVE_WT02)	18:47	54	18:04 (EVE_WT01)	20:38			21:27			22:02	19	06:19 (TEN_WT01)
15	08:44		09:38 (KLZ_WT23)	08:00		16:23 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:00 (TEN_WT01)
	17:06	148	16:34 (KLZ_WT13)	18:00	31	16:54 (KLZ_WT12)	18:49	41	18:02 (EVE_WT01)	20:40			21:28			22:02	20	06:20 (TEN_WT01)
16	08:43		09:38 (KLZ_WT23)	07:58		16:24 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	146	16:35 (KLZ_WT13)	18:02	29	16:53 (KLZ_WT12)	18:50	31	07:53 (KLZ_WT17)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		09:38 (KLZ_WT23)	07:57		16:26 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53		06:19 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:09	147	16:37 (KLZ_WT13)	18:03	26	16:52 (KLZ_WT12)	18:52	34	07:53 (KLZ_WT17)	20:43			21:31	1	06:20 (EAM_WT02)	22:03	19	06:20 (TEN_WT01)
18	08:41		09:39 (KLZ_WT23)	07:55		08:18 (SAM_WT06)	06:55		07:17 (KLZ_WT17)	06:46			05:52		06:18 (EAM_WT02)	05:29		06:01 (TEN_WT01)
	17:11	144	16:39 (KLZ_WT13)	18:05	24	16:50 (KLZ_WT12)	18:54	36	07:53 (KLZ_WT17)	20:45			21:33	1	06:19 (EAM_WT02)	22:04	19	06:20 (TEN_WT01)
19	08:40		09:39 (KLZ_WT23)	07:53		08:16 (SAM_WT06)	06:53		07:17 (KLZ_WT17)	06:44			05:51			05:29		06:01 (TEN_WT01)
	17:12	140	16:39 (KLZ_WT13)	18:07	26	16:48 (KLZ_WT12)	18:55	36	07:53 (KLZ_WT17)	20:47			21:34			22:04	20	06:21 (TEN_WT01)
20	08:39		09:07 (SAM_WT07)	07:51		08:14 (SAM_WT06)	06:50		07:16 (KLZ_WT17)	06:42			05:49		06:16 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:14	137	16:40 (KLZ_WT13)	18:09	35	16:45 (KLZ_WT12)	18:57	37	07:53 (KLZ_WT17)	20:48			21:35	1	06:17 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
21	08:38		09:05 (SAM_WT07)	07:49		08:12 (SAM_WT06)	06:48		07:16 (KLZ_WT17)	06:40			05:48		06:14 (EAM_WT01)	05:30		06:01 (TEN_WT01)
	17:16	133	16:40 (KLZ_WT13)	18:11	32	09:02 (KLZ_WT05)	18:59	36	07:52 (KLZ_WT17)	20:50			21:37	2	06:16 (EAM_WT01)	22:04	20	06:21 (TEN_WT01)
22	08:37		09:04 (SAM_WT07)	07:47		08:10 (SAM_WT06)	06:46		07:16 (KLZ_WT17)	06:38			05:47		06:13 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:17	119	16:40 (KLZ_WT13)	18:12	39	09:04 (KLZ_WT05)	19:00	36	07:52 (KLZ_WT17)	20:52			21:38	3	06:16 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
23	08:36		09:03 (SAM_WT07)	07:45		08:08 (SAM_WT06)	06:44		07:16 (KLZ_WT17)	06:36			05:46		06:12 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:19	119	16:42 (KLZ_WT12)	18:14	44	09:05 (KLZ_WT05)	19:02	35	07:51 (KLZ_WT17)	20:53			21:40	3	06:15 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:07 (SAM_WT06)	06:41		07:16 (KLZ_WT17)	06:34			05:44		06:11 (EAM_WT01)	05:30		06:02 (TEN_WT01)
	17:21	121	16:45 (KLZ_WT12)	18:16	47	09:06 (KLZ_WT05)	19:04	35	07:51 (KLZ_WT17)	20:55			21:41	3	06:14 (EAM_WT01)	22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:08 (SAM_WT06)	06:39		07:16 (KLZ_WT17)	06:32			05:43		06:10 (EAM_WT01)	05:31		06:03 (TEN_WT01)
	17:22	122	16:46 (KLZ_WT12)	18:18	48	09:07 (KLZ_WT05)	19:05	33	07:49 (KLZ_WT17)	20:57			21:42	3	06:13 (EAM_WT01)	22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:08 (SAM_WT06)	06:37		07:17 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	120	16:48 (KLZ_WT12)	18:19	49	09:08 (KLZ_WT05)	19:07	31	07:48 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:09 (SAM_WT06)	06:35		07:18 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	117	16:49 (KLZ_WT12)	18:21	49	09:09 (KLZ_WT05)	19:09	29	07:47 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:57 (SAM_WT07)	07:34		08:10 (SAM_WT06)	06:32		07:18 (KLZ_WT17)	06:26		06:49 (SAM_WT10)	05:40			05:32		06:03 (TEN_WT01)
	17:28	115	16:51 (KLZ_WT12)	18:23	46	09:08 (KLZ_WT05)	19:10	26	07:44 (KLZ_WT17)	21:01	1	06:50 (SAM_WT10)	21:46			22:05	20	06:23 (TEN_WT01)
29	08:28		08:57 (SAM_WT07)				07:30		08:20 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	109	16:52 (KLZ_WT12)				20:12	22	08:42 (KLZ_WT17)	21:03	3	06:51 (SAM_WT10)	21:47	1	06:08 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:58 (SAM_WT07)				07:28		08:22 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	101	16:53 (KLZ_WT12)				20:14	18	08:40 (KLZ_WT17)	21:05	4	06:50 (SAM_WT10)	21:48	5	06:11 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:58 (SAM_WT07)				07:25		08:25 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	89	17:03 (EVE_WT02)				20:15	11	08:36 (KLZ_WT17)				21:49	7	06:12 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		4214			1394			1327			82			55			531	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,66			0,66			0,59			0,64			0,69			0,71	
Total reduction		0,16			0,19			0,22			0,29			0,31			0,31	
Total, real		672			269			289			24			17			163	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 5 - Speidamstraat 58, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57			07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		09:18 (KLZ_WT23)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33			19:25	63	18:46 (EVE_WT01)	17:21	65	16:47 (EVE_WT02)	16:42	150	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:28 (KLZ_WT01)	07:46		08:11 (KLZ_WT17)	07:38		08:06 (SAM_WT11)	08:27		09:03 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	3	07:31 (KLZ_WT01)	19:23	64	18:47 (EVE_WT01)	17:19	67	16:48 (EVE_WT02)	16:41	153	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (KLZ_WT17)	07:40		08:08 (SAM_WT11)	08:29		09:02 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	7	07:33 (KLZ_WT01)	19:21	65	18:46 (EVE_WT01)	17:17	66	16:48 (EVE_WT02)	16:41	154	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT11)	08:30		09:02 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:29			20:27	12	07:40 (KLZ_WT02)	19:19	64	18:47 (EVE_WT01)	17:16	64	16:46 (EVE_WT02)	16:40	155	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:16 (SAM_WT08)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	13	07:42 (KLZ_WT02)	19:16	60	18:47 (EVE_WT01)	17:14	61	16:44 (EVE_WT02)	16:40	153	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:16			07:05		07:30 (KLZ_WT01)	07:53		08:17 (SAM_WT08)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	12	07:42 (KLZ_WT02)	19:14	60	18:46 (EVE_WT01)	17:12	58	16:42 (EVE_WT02)	16:39	149	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		09:07 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	10	07:42 (KLZ_WT02)	19:12	59	18:45 (EVE_WT01)	17:11	59	16:41 (EVE_WT02)	16:39	146	14:47 (KLZ_WT20)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		09:07 (KLZ_WT05)	07:49		08:17 (SAM_WT04)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	8	07:41 (KLZ_WT02)	19:10	57	18:43 (EVE_WT01)	17:09	76	16:39 (EVE_WT02)	16:39	147	14:48 (KLZ_WT20)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10		07:35 (KLZ_WT02)	07:57		09:06 (KLZ_WT05)	07:50		08:19 (SAM_WT04)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	7	06:56 (SAM_WT10)	20:15	6	07:41 (KLZ_WT02)	19:08	55	18:40 (EVE_WT01)	17:07	83	16:38 (EVE_WT02)	16:38	145	14:48 (KLZ_WT20)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		07:36 (KLZ_WT02)	07:59		09:06 (KLZ_WT05)	07:52		08:31 (SAM_WT07)	08:37		09:09 (SAM_WT05)
	22:00	11	06:22 (TEN_WT01)	21:18	7	06:57 (SAM_WT10)	20:13	3	07:39 (KLZ_WT02)	19:05	52	18:38 (EVE_WT01)	17:06	87	16:36 (EVE_WT02)	16:38	146	14:48 (KLZ_WT20)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13			08:01		09:06 (KLZ_WT05)	07:54		08:30 (SAM_WT07)	08:38		09:10 (SAM_WT05)
	21:59	10	06:22 (TEN_WT01)	21:16	6	06:57 (SAM_WT10)	20:11			19:03	49	18:36 (EVE_WT01)	17:04	92	16:35 (EVE_WT02)	16:38	144	14:49 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:17 (KLZ_WT17)	08:02		09:06 (KLZ_WT05)	07:56		08:29 (SAM_WT07)	08:39		09:11 (SAM_WT05)
	21:58	8	06:21 (TEN_WT01)	21:14	5	06:58 (SAM_WT10)	20:09	10	08:27 (KLZ_WT17)	19:01	45	18:34 (EVE_WT01)	17:03	101	16:24 (KLZ_WT12)	16:38	144	14:49 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:14 (KLZ_WT17)	08:04		08:44 (SAM_WT06)	07:57		08:29 (SAM_WT07)	08:40		09:12 (SAM_WT05)
	21:57	6	06:20 (TEN_WT01)	21:13	4	06:58 (SAM_WT10)	20:06	17	08:31 (KLZ_WT17)	18:59	47	18:31 (EVE_WT01)	17:01	109	16:24 (KLZ_WT12)	16:38	144	14:50 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:10 (KLZ_WT17)	08:06		08:42 (SAM_WT06)	07:59		08:29 (SAM_WT07)	08:41		09:13 (SAM_WT05)
	21:56	4	06:19 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	22	08:32 (KLZ_WT17)	18:57	47	09:41 (KLZ_WT05)	17:00	115	16:23 (KLZ_WT12)	16:38	143	14:50 (KLZ_WT20)
15	05:46			06:30		06:57 (SAM_WT10)	07:19		08:09 (KLZ_WT17)	08:07		08:41 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		09:14 (SAM_WT05)
	21:56			21:09	1	06:58 (SAM_WT10)	20:02	25	08:34 (KLZ_WT17)	18:55	49	09:41 (KLZ_WT05)	16:59	117	16:22 (KLZ_WT12)	16:38	142	14:51 (KLZ_WT20)
16	05:48			06:32			07:21		08:07 (KLZ_WT17)	08:09		08:39 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		09:15 (SAM_WT05)
	21:55			21:07			20:00	28	08:35 (KLZ_WT17)	18:52	50	09:39 (KLZ_WT05)	16:57	120	16:21 (KLZ_WT12)	16:38	142	14:52 (KLZ_WT20)
17	05:49			06:33			07:22		08:05 (KLZ_WT17)	08:11		08:39 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		09:16 (SAM_WT05)
	21:54			21:05			19:57	31	08:36 (KLZ_WT17)	18:50	48	09:38 (KLZ_WT05)	16:56	122	16:20 (KLZ_WT12)	16:38	139	14:52 (KLZ_WT20)
18	05:50			06:35			07:24		08:04 (KLZ_WT17)	08:12		08:39 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		09:16 (SAM_WT05)
	21:53			21:03			19:55	32	08:36 (KLZ_WT17)	18:48	45	09:37 (KLZ_WT05)	16:55	121	16:19 (KLZ_WT12)	16:39	141	14:52 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37			07:25		08:03 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		08:37 (SAM_WT07)	08:45		09:17 (SAM_WT05)
	21:51	3	06:23 (EAM_WT01)	21:01			19:53	34	08:37 (KLZ_WT17)	18:46	42	09:36 (KLZ_WT05)	16:53	119	16:16 (KLZ_WT12)	16:39	141	14:53 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38			07:27		08:03 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		08:39 (SAM_WT07)	08:46		09:18 (SAM_WT05)
	21:50	3	06:24 (EAM_WT01)	20:59			19:50	35	08:38 (KLZ_WT17)	18:44	36	09:34 (KLZ_WT05)	16:52	119	16:15 (KLZ_WT13)	16:39	141	14:54 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40			07:28		08:01 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		08:41 (SAM_WT07)	08:47		09:18 (SAM_WT05)
	21:49	3	06:26 (EAM_WT01)	20:57			19:48	36	08:37 (KLZ_WT17)	18:42	29	09:31 (KLZ_WT05)	16:51	133	16:16 (KLZ_WT13)	16:40	141	14:54 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41			07:30		08:01 (KLZ_WT17)	08:19		08:45 (SAM_WT06)	08:12		08:43 (SAM_WT07)	08:47		09:19 (SAM_WT05)
	21:48	2	06:26 (EAM_WT01)	20:55			19:46	37	08:38 (KLZ_WT17)	18:40	32	17:16 (KLZ_WT12)	16:50	137	16:16 (KLZ_WT13)	16:40	141	14:55 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43			07:32		08:00 (KLZ_WT17)	08:21		08:47 (SAM_WT06)	08:14		09:15 (KLZ_WT23)	08:48		09:19 (SAM_WT05)
	21:47	1	06:26 (EAM_WT01)	20:53			19:44	37	08:37 (KLZ_WT17)	18:38	24	17:19 (KLZ_WT12)	16:49	141	16:16 (KLZ_WT13)	16:41	141	14:55 (KLZ_WT20)
24	05:58			06:44			07:33		08:00 (KLZ_WT17)	08:23		16:57 (KLZ_WT12)	08:16		09:16 (KLZ_WT23)	08:48		09:19 (SAM_WT05)
	21:45			20:50			19:41	37	08:37 (KLZ_WT17)	18:36	24	17:21 (KLZ_WT12)	16:48	144	16:16 (KLZ_WT13)	16:41	141	14:55 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46			07:35		07:59 (KLZ_WT17)	07:24		15:56 (KLZ_WT12)	08:17		09:16 (KLZ_WT23)	08:48		09:20 (SAM_WT05)
	21:44	1	06:29 (EAM_WT02)	20:48			19:39	37	08:36 (KLZ_WT17)	17:34	26	16:22 (KLZ_WT12)	16:47	146	16:15 (KLZ_WT13)	16:42	141	14:56 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48			07:36		08:01 (KLZ_WT17)	07:26		15:54 (KLZ_WT12)	08:19		09:16 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:43	1	06:30 (EAM_WT02)	20:46			19:37	35	08:36 (KLZ_WT17)	17:32	30	16:24 (KLZ_WT12)	16:46	147	16:14 (KLZ_WT13)	16:43	140	14:56 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:52 (KLZ_WT12)	08:20		09:17 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:41			20:44			19:34	32	08:35 (KLZ_WT17)	17:30	32	16:24 (KLZ_WT12)	16:45	148	16:13 (KLZ_WT13)	16:43	140	14:56 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:51 (KLZ_WT12)	08:22		09:18 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:40			20:42			19:32	39	18:41 (EVE_WT01)	17:28	39	16:40 (EVE_WT02)	16:44	148	16:12 (KLZ_WT13)	16:44	143	14:57 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		15:51 (KLZ_WT12)	08:23		09:17 (KLZ_WT23)	08:49		09:20 (SAM_WT05)
	21:38			20:40			19:30	50	18:44 (EVE_WT01)	17:26	45	16:43 (EVE_WT02)	16:43	149	16:11 (KLZ_WT13)	16:45	141	14:57 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		15:50 (KLZ_WT12)	08:25		09:18 (KLZ_WT23)	08:50		09:20 (SAM_WT05)
	21:37			20:38			19:28	59	18:45 (EVE_WT01)	17:25	51	16:45 (EVE_WT02)	16:43	149	16:10 (KLZ_WT13)	16:46	144	14:58 (KLZ_WT20)
31	06:08			06:55						07:35		08:06 (SAM_WT11)				08:50		09:20 (SAM_WT05)
	21:35			20:35						17:23	59	16:46 (EVE_WT02)				16:47	143	14:58 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		200			32			707			1448			3263			4475	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71			0,67			0,59			0,61			0,67			0,65	
Total reduction		0,31			0,31			0,25			0,22			0,17			0,14	
Total, real		62			10			177			312			570			643	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (SAM_WT06)	08:24		17:01 (KLZ_WT12)	07:32		08:26 (KLZ_WT02)	07:23			06:20		06:52 (SAM_WT10)	05:36		06:07 (EAM_WT01)
	16:48	122	16:14 (KLZ_WT20)	17:35	4	17:05 (KLZ_WT12)	18:25	18	08:44 (KLZ_WT02)	20:17			21:06	12	07:04 (SAM_WT10)	21:51	10	06:17 (EAM_WT01)
2	08:50		09:33 (SAM_WT06)	08:23		17:00 (KLZ_WT12)	07:30		08:28 (KLZ_WT02)	07:21			06:18		06:54 (SAM_WT10)	05:35		06:07 (EAM_WT01)
	16:49	121	16:15 (KLZ_WT20)	17:36	7	17:07 (KLZ_WT12)	18:26	14	08:42 (KLZ_WT02)	20:19			21:08	7	07:01 (SAM_WT10)	21:52	10	06:17 (EAM_WT01)
3	08:49		09:33 (SAM_WT06)	08:21		17:00 (KLZ_WT12)	07:28		08:30 (KLZ_WT02)	07:19			06:16			05:35		06:09 (EAM_WT01)
	16:50	120	16:17 (KLZ_WT20)	17:38	9	17:09 (KLZ_WT12)	18:28	10	08:40 (KLZ_WT02)	20:20			21:09			21:53	8	06:17 (EAM_WT01)
4	08:49		09:33 (SAM_WT06)	08:19		17:01 (KLZ_WT12)	07:26			07:16		07:39 (SAM_WT01)	06:15			05:34		06:09 (EAM_WT01)
	16:51	119	16:17 (KLZ_WT20)	17:40	10	17:11 (EVE_WT02)	18:30			20:22	2	07:41 (SAM_WT01)	21:11			21:54	7	06:16 (EAM_WT01)
5	08:49		09:34 (SAM_WT06)	08:18		17:01 (KLZ_WT12)	07:24			07:14		07:37 (SAM_WT01)	06:13			05:33		06:11 (EAM_WT01)
	16:52	117	16:19 (KLZ_WT20)	17:42	12	17:13 (EVE_WT02)	18:32			20:24	2	07:39 (SAM_WT01)	21:13			21:55	4	06:15 (EAM_WT01)
6	08:49		09:34 (SAM_WT06)	08:16		17:01 (KLZ_WT12)	07:21			07:12			06:11			05:33		
	16:54	114	16:20 (KLZ_WT20)	17:44	14	17:15 (EVE_WT02)	18:33			20:25			21:14			21:56		
7	08:48		09:35 (SAM_WT06)	08:15		17:02 (KLZ_WT12)	07:19		07:44 (KLZ_WT01)	07:10			06:09			05:32		
	16:55	110	16:22 (KLZ_WT20)	17:45	14	17:16 (EVE_WT02)	18:35	9	07:53 (KLZ_WT01)	20:27			21:16			21:56		
8	08:48		09:35 (SAM_WT06)	08:13		17:04 (KLZ_WT12)	07:17		07:42 (KLZ_WT01)	07:08			06:07			05:32		
	16:56	104	16:22 (KLZ_WT20)	17:47	15	17:19 (EVE_WT02)	18:37	13	07:55 (KLZ_WT01)	20:29			21:17			21:57		
9	08:48		09:37 (SAM_WT06)	08:11		17:05 (KLZ_WT12)	07:15		07:41 (KLZ_WT01)	07:05			06:06			05:31		
	16:57	104	16:25 (KLZ_WT20)	17:49	14	17:20 (EVE_WT02)	18:38	15	07:56 (KLZ_WT01)	20:30			21:19			21:58		
10	08:47		09:37 (SAM_WT06)	08:09			07:13		07:39 (KLZ_WT01)	07:03			06:04			05:31		
	16:59	103	16:26 (KLZ_WT20)	17:51			18:40	17	07:56 (KLZ_WT01)	20:32			21:21			21:59		
11	08:46		09:37 (SAM_WT06)	08:08			07:10		07:39 (KLZ_WT01)	07:01			06:03			05:30		
	17:00	102	16:27 (KLZ_WT20)	17:53			18:42	17	07:56 (KLZ_WT01)	20:33			21:22			22:00		
12	08:46		09:39 (SAM_WT06)	08:06			07:08		07:39 (KLZ_WT01)	06:59			06:01		06:26 (EAM_WT03)	05:30		
	17:02	98	16:29 (KLZ_WT20)	17:54			18:44	17	07:56 (KLZ_WT01)	20:35			21:24	2	06:28 (EAM_WT03)	22:00		
13	08:45		09:39 (SAM_WT06)	08:04			07:06		07:38 (KLZ_WT01)	06:57			05:59		06:25 (EAM_WT03)	05:30		
	17:03	95	16:31 (KLZ_WT20)	17:56			18:45	17	07:55 (KLZ_WT01)	20:37			21:25	3	06:28 (EAM_WT03)	22:01		
14	08:44		09:40 (SAM_WT06)	08:02		08:26 (SAM_WT08)	07:04		07:38 (KLZ_WT01)	06:55			05:58		06:23 (EAM_WT03)	05:30		
	17:05	88	16:32 (KLZ_WT20)	17:58	1	08:27 (SAM_WT08)	18:47	16	07:54 (KLZ_WT01)	20:38			21:27	4	06:27 (EAM_WT03)	22:02		
15	08:44		09:41 (SAM_WT06)	08:00		08:24 (SAM_WT08)	07:02		07:39 (KLZ_WT01)	06:52		07:15 (SAM_WT09)	05:56		06:22 (EAM_WT02)	05:30		
	17:06	86	16:34 (KLZ_WT20)	18:00	3	08:27 (SAM_WT08)	18:49	14	07:53 (KLZ_WT01)	20:40	1	07:16 (SAM_WT09)	21:28	5	06:27 (EAM_WT03)	22:02		
16	08:43		09:42 (SAM_WT06)	07:58		08:22 (SAM_WT08)	06:59		07:22 (SWB_WT01_RP)	06:50		07:13 (SAM_WT09)	05:55		06:21 (EAM_WT02)	05:29		
	17:08	83	16:35 (KLZ_WT20)	18:02	11	08:40 (KLZ_WT02)	18:50	11	07:51 (KLZ_WT01)	20:42	2	07:15 (SAM_WT09)	21:30	5	06:26 (EAM_WT03)	22:03		
17	08:42		09:44 (SAM_WT06)	07:56		08:20 (SAM_WT08)	06:57		07:19 (SWB_WT01_RP)	06:48		07:11 (SAM_WT09)	05:53		06:19 (EAM_WT02)	05:29		
	17:09	78	16:36 (KLZ_WT20)	18:03	18	08:43 (KLZ_WT02)	18:52	4	07:46 (KLZ_WT01)	20:43	3	07:14 (SAM_WT09)	21:31	4	06:23 (EAM_WT02)	22:03		
18	08:41		09:46 (SAM_WT06)	07:55		08:18 (SAM_WT08)	06:55		07:17 (SAM_WT02)	06:46		07:09 (SAM_WT09)	05:52		06:18 (EAM_WT02)	05:29		
	17:11	71	16:37 (KLZ_WT20)	18:05	23	08:45 (KLZ_WT02)	18:54	1	07:18 (SAM_WT02)	20:45	3	07:12 (SAM_WT09)	21:33	6	06:24 (EAM_WT02)	22:03		
19	08:40		09:50 (SAM_WT06)	07:53		08:17 (SAM_WT08)	06:53		07:15 (SAM_WT02)	06:44		07:07 (SAM_WT10)	05:51		06:17 (EAM_WT02)	05:29		
	17:12	61	16:37 (KLZ_WT20)	18:07	25	08:46 (KLZ_WT02)	18:55	3	07:18 (SAM_WT02)	20:47	1	07:08 (SAM_WT10)	21:34	7	06:24 (EAM_WT02)	22:04		
20	08:39		11:31 (KLZ_WT17)	07:51		08:26 (KLZ_WT02)	06:50		07:13 (SAM_WT02)	06:42		07:05 (SAM_WT10)	05:49		06:16 (EAM_WT01)	05:29		
	17:14	52	16:37 (KLZ_WT20)	18:09	22	17:42 (EVE_WT01)	18:57	4	07:17 (SAM_WT02)	20:48	4	07:09 (SAM_WT10)	21:35	8	06:24 (EAM_WT02)	22:04		
21	08:38		11:33 (KLZ_WT17)	07:49		08:26 (KLZ_WT02)	06:48		07:11 (SAM_WT02)	06:40		07:03 (SAM_WT10)	05:48		06:14 (EAM_WT01)	05:30		
	17:16	46	16:37 (KLZ_WT20)	18:11	26	17:44 (EVE_WT01)	18:59	3	07:14 (SAM_WT02)	20:50	6	07:09 (SAM_WT10)	21:37	8	06:22 (EAM_WT02)	22:04		
22	08:37		11:39 (KLZ_WT17)	07:47		08:25 (KLZ_WT02)	06:46		07:08 (SAM_WT03)	06:38		07:01 (SAM_WT10)	05:47		06:13 (EAM_WT01)	05:30		
	17:17	34	16:37 (KLZ_WT20)	18:12	29	17:46 (EVE_WT01)	19:00	2	07:10 (SAM_WT03)	20:52	9	07:10 (SAM_WT10)	21:38	8	06:21 (EAM_WT02)	22:05		
23	08:36		16:12 (KLZ_WT20)	07:45		08:25 (KLZ_WT02)	06:44		07:06 (SAM_WT03)	06:36		06:59 (SAM_WT10)	05:45		06:12 (EAM_WT01)	05:30		
	17:19	25	16:37 (KLZ_WT20)	18:14	32	17:48 (EVE_WT01)	19:02	4	07:10 (SAM_WT03)	20:53	11	07:10 (SAM_WT10)	21:40	8	06:20 (EAM_WT02)	22:05		
24	08:35		16:13 (KLZ_WT20)	07:43		08:25 (KLZ_WT02)	06:41		07:03 (SAM_WT03)	06:34		06:57 (SAM_WT10)	05:44		06:11 (EAM_WT01)	05:30		
	17:21	24	16:37 (KLZ_WT20)	18:16	33	17:50 (EVE_WT01)	19:04	6	07:09 (SAM_WT03)	20:55	13	07:10 (SAM_WT10)	21:41	7	06:18 (EAM_WT01)	22:05		
25	08:34		16:13 (KLZ_WT20)	07:41		08:25 (KLZ_WT02)	06:39		07:01 (SAM_WT03)	06:32		06:55 (SAM_WT10)	05:43		06:10 (EAM_WT01)	05:31		
	17:22	24	16:51 (KLZ_WT13)	18:18	34	17:52 (EVE_WT01)	19:05	7	07:08 (SAM_WT03)	20:56	14	07:09 (SAM_WT10)	21:42	8	06:18 (EAM_WT01)	22:05		
26	08:32		16:15 (KLZ_WT20)	07:38		08:25 (KLZ_WT02)	06:37		07:01 (SAM_WT03)	06:30		06:53 (SAM_WT10)	05:42		06:09 (EAM_WT01)	05:31		
	17:24	24	16:54 (KLZ_WT13)	18:19	31	17:51 (EVE_WT01)	19:07	5	07:06 (SAM_WT03)	20:58	16	07:09 (SAM_WT10)	21:43	9	06:18 (EAM_WT01)	22:05		
27	08:31		16:16 (KLZ_WT20)	07:36		08:26 (KLZ_WT02)	06:34			06:28		06:51 (SAM_WT10)	05:41		06:08 (EAM_WT01)	05:31		
	17:26	23	16:55 (KLZ_WT13)	18:21	21	08:47 (KLZ_WT02)	19:09			21:00	17	07:08 (SAM_WT10)	21:45	10	06:18 (EAM_WT01)	22:05		
28	08:30		16:18 (KLZ_WT20)	07:34		08:25 (KLZ_WT02)	06:32			06:26		06:49 (SAM_WT10)	05:40		06:07 (EAM_WT01)	05:32		
	17:27	22	16:57 (KLZ_WT13)	18:23	21	08:46 (KLZ_WT02)	19:10			21:01	18	07:07 (SAM_WT10)	21:46	11	06:18 (EAM_WT01)	22:05		
29	08:28		16:20 (KLZ_WT20)				07:30		07:52 (SWB_WT02_RP)	06:24		06:50 (SAM_WT10)	05:39		06:06 (EAM_WT01)	05:32		
	17:29	19	16:59 (KLZ_WT13)				20:12	1	07:53 (SWB_WT02_RP)	21:03	17	07:07 (SAM_WT10)	21:47	12	06:18 (EAM_WT01)	22:05		
30	08:27		16:24 (KLZ_WT20)				07:28		07:50 (SWB_WT02_RP)	06:22		06:51 (SAM_WT10)	05:38		06:06 (EAM_WT01)	05:33		
	17:31	13	17:01 (KLZ_WT13)				20:14	1	07:51 (SWB_WT02_RP)	21:05	15	07:06 (SAM_WT10)	21:48	12	06:18 (EAM_WT01)	22:04		
31	08:25		16:55 (KLZ_WT13)				07:25						05:37		06:07 (EAM_WT01)			
	17:33	8	17:03 (KLZ_WT12)				20:15						21:49	11	06:18 (EAM_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2210			429			229			154			167			39	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,60			0,57			0,65			0,70			0,70	
Total reduction		0,15			0,18			0,21			0,30			0,31			0,30	
Total, real		342			76			49			46			52			12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 6 - Rimewegel 46, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (EAM_WT03)	06:57			07:44		08:17 (KLZ_WT01)	07:37		16:38 (KLZ_WT12)	08:26		09:19 (SAM_WT06)
	22:04			21:34	1	06:38 (EAM_WT03)	20:33			19:25	18	08:35 (KLZ_WT01)	17:21	2	16:40 (KLZ_WT12)	16:42	102	16:09 (KLZ_WT20)
2	05:34			06:10			06:59			07:46		08:17 (KLZ_WT01)	07:38		16:35 (KLZ_WT12)	08:27		09:20 (SAM_WT06)
	22:04			21:32			20:31			19:23	18	08:35 (KLZ_WT01)	17:19	15	16:50 (EVE_WT02)	16:41	103	16:09 (KLZ_WT20)
3	05:35			06:12			07:00			07:48		08:17 (KLZ_WT01)	07:40		16:32 (KLZ_WT12)	08:29		09:20 (SAM_WT06)
	22:04			21:30			20:29			19:21	17	08:34 (KLZ_WT01)	17:17	16	16:48 (EVE_WT02)	16:41	104	16:08 (KLZ_WT20)
4	05:36			06:13			07:02			07:49		08:17 (KLZ_WT01)	07:42		16:31 (KLZ_WT12)	08:30		09:20 (SAM_WT06)
	22:03			21:29			20:27			19:19	16	08:33 (KLZ_WT01)	17:16	15	16:46 (EVE_WT02)	16:40	105	16:08 (KLZ_WT20)
5	05:37			06:15			07:03			07:51		08:18 (KLZ_WT01)	07:43		16:31 (KLZ_WT12)	08:31		09:20 (SAM_WT06)
	22:03			21:27			20:24			19:16	14	08:32 (KLZ_WT01)	17:14	13	16:44 (EVE_WT02)	16:40	109	16:07 (KLZ_WT20)
6	05:37			06:16			07:05			07:53		08:19 (KLZ_WT01)	07:45		16:30 (KLZ_WT12)	08:33		09:20 (SAM_WT06)
	22:02			21:25			20:22			19:14	11	08:30 (KLZ_WT01)	17:12	12	16:42 (EVE_WT02)	16:39	114	16:06 (KLZ_WT20)
7	05:38		06:18 (EAM_WT01)	06:18			07:06		07:32 (SAM_WT01)	07:54		08:21 (KLZ_WT01)	07:47		16:30 (KLZ_WT12)	08:34		09:21 (SAM_WT06)
	22:02	3	06:21 (EAM_WT01)	21:24			20:20	2	07:34 (SAM_WT01)	19:12	7	08:28 (KLZ_WT01)	17:11	11	16:41 (EVE_WT02)	16:39	116	16:06 (KLZ_WT20)
8	05:39		06:17 (EAM_WT01)	06:19			07:08		07:33 (SAM_WT01)	07:56			07:49		16:31 (KLZ_WT12)	08:35		09:21 (SAM_WT06)
	22:01	6	06:23 (EAM_WT01)	21:22			20:18	2	07:35 (SAM_WT01)	19:10			17:09	8	16:39 (KLZ_WT12)	16:39	118	16:05 (KLZ_WT20)
9	05:40		06:16 (EAM_WT01)	06:21			07:10			07:57			07:50		16:31 (KLZ_WT12)	08:36		09:21 (SAM_WT06)
	22:00	8	06:24 (EAM_WT01)	21:20			20:15			19:08			17:07	7	16:38 (KLZ_WT12)	16:38	121	16:05 (KLZ_WT20)
10	05:41		06:16 (EAM_WT01)	06:23			07:11			07:59		09:07 (KLZ_WT02)	07:52		16:32 (KLZ_WT12)	08:37		09:22 (SAM_WT06)
	22:00	9	06:25 (EAM_WT01)	21:18			20:13			19:05	4	09:11 (KLZ_WT02)	17:06	4	16:36 (KLZ_WT12)	16:38	120	16:04 (KLZ_WT20)
11	05:42		06:16 (EAM_WT01)	06:24		07:02 (SAM_WT10)	07:13			08:01		09:03 (KLZ_WT02)	07:54		16:26 (KLZ_WT13)	08:38		09:22 (SAM_WT06)
	21:59	10	06:26 (EAM_WT01)	21:16	9	07:11 (SAM_WT10)	20:11			19:03	12	09:15 (KLZ_WT02)	17:04	9	16:35 (KLZ_WT12)	16:38	122	16:04 (KLZ_WT20)
12	05:43		06:15 (EAM_WT01)	06:26		07:00 (SAM_WT10)	07:14			08:02		09:00 (KLZ_WT02)	07:56		15:54 (KLZ_WT20)	08:39		09:22 (SAM_WT06)
	21:58	11	06:26 (EAM_WT01)	21:14	13	07:13 (SAM_WT10)	20:09			19:01	16	09:16 (KLZ_WT02)	17:03	14	16:32 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
13	05:44		06:15 (EAM_WT01)	06:27		06:58 (SAM_WT10)	07:16		07:41 (SWB_WT02_RP)	08:04		08:59 (KLZ_WT02)	07:57		15:51 (KLZ_WT20)	08:40		09:23 (SAM_WT06)
	21:57	12	06:27 (EAM_WT01)	21:13	16	07:14 (SAM_WT10)	20:06	1	07:42 (SWB_WT02_RP)	18:59	19	09:18 (KLZ_WT02)	17:01	20	16:31 (KLZ_WT13)	16:38	125	16:04 (KLZ_WT20)
14	05:45		06:15 (EAM_WT01)	06:29		06:58 (SAM_WT10)	07:17		07:42 (SWB_WT02_RP)	08:06		08:58 (KLZ_WT02)	07:59		15:50 (KLZ_WT20)	08:41		09:23 (SAM_WT06)
	21:56	12	06:27 (EAM_WT01)	21:11	17	07:15 (SAM_WT10)	20:04	1	07:43 (SWB_WT02_RP)	18:57	21	09:19 (KLZ_WT02)	17:00	22	16:29 (KLZ_WT13)	16:38	123	16:04 (KLZ_WT20)
15	05:46		06:16 (EAM_WT01)	06:30		06:57 (SAM_WT10)	07:19			08:07		08:58 (KLZ_WT02)	08:01		15:49 (KLZ_WT20)	08:42		09:24 (SAM_WT06)
	21:56	11	06:27 (EAM_WT01)	21:09	18	07:15 (SAM_WT10)	20:02			18:55	27	18:22 (EVE_WT01)	16:58	23	16:28 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
16	05:47		06:17 (EAM_WT01)	06:32		06:59 (SAM_WT10)	07:21			08:09		08:56 (KLZ_WT02)	08:02		15:48 (KLZ_WT20)	08:43		09:25 (SAM_WT06)
	21:55	11	06:28 (EAM_WT01)	21:07	17	07:16 (SAM_WT10)	19:59			18:52	32	18:23 (EVE_WT01)	16:57	24	16:27 (KLZ_WT13)	16:38	124	16:04 (KLZ_WT20)
17	05:49		06:18 (EAM_WT01)	06:33		07:00 (SAM_WT10)	07:22		07:50 (SAM_WT03)	08:11		08:56 (KLZ_WT02)	08:04		15:47 (KLZ_WT20)	08:44		09:25 (SAM_WT06)
	21:54	10	06:28 (EAM_WT01)	21:05	16	07:16 (SAM_WT10)	19:57	4	07:54 (SAM_WT03)	18:50	34	18:22 (EVE_WT01)	16:56	24	16:25 (KLZ_WT13)	16:38	126	16:05 (KLZ_WT20)
18	05:50		06:19 (EAM_WT01)	06:35		07:02 (SAM_WT10)	07:24		07:48 (SAM_WT03)	08:12		08:56 (KLZ_WT02)	08:06		15:47 (KLZ_WT20)	08:45		09:25 (SAM_WT06)
	21:52	9	06:28 (EAM_WT01)	21:03	14	07:16 (SAM_WT10)	19:55	7	07:55 (SAM_WT03)	18:48	32	18:20 (EVE_WT01)	16:55	24	16:11 (KLZ_WT20)	16:39	124	16:04 (KLZ_WT20)
19	05:51		06:20 (EAM_WT01)	06:37		07:03 (SAM_WT10)	07:25		07:50 (SAM_WT03)	08:14		08:56 (KLZ_WT02)	08:07		15:46 (KLZ_WT20)	08:45		09:26 (SAM_WT06)
	21:51	8	06:28 (EAM_WT01)	21:01	12	07:15 (SAM_WT10)	19:53	6	07:56 (SAM_WT03)	18:46	31	18:18 (EVE_WT01)	16:53	25	16:11 (KLZ_WT20)	16:39	126	16:05 (KLZ_WT20)
20	05:52		06:21 (EAM_WT01)	06:38		07:05 (SAM_WT10)	07:27		07:52 (SAM_WT03)	08:16		08:57 (KLZ_WT02)	08:09		11:14 (KLZ_WT17)	08:46		09:27 (SAM_WT06)
	21:50	8	06:29 (EAM_WT02)	20:59	10	07:15 (SAM_WT10)	19:50	5	07:57 (SAM_WT03)	18:44	28	18:16 (EVE_WT01)	16:52	34	16:12 (KLZ_WT20)	16:39	123	16:05 (KLZ_WT20)
21	05:54		06:23 (EAM_WT01)	06:40		07:06 (SAM_WT10)	07:28		07:53 (SAM_WT03)	08:18		08:56 (KLZ_WT02)	08:11		11:09 (KLZ_WT17)	08:47		09:27 (SAM_WT06)
	21:49	8	06:31 (EAM_WT02)	20:57	8	07:14 (SAM_WT10)	19:48	3	07:56 (SAM_WT03)	18:42	25	18:14 (EVE_WT01)	16:51	46	16:13 (KLZ_WT20)	16:40	123	16:05 (KLZ_WT20)
22	05:55		06:24 (EAM_WT01)	06:41		07:08 (SAM_WT10)	07:30			08:19		08:57 (KLZ_WT02)	08:12		11:07 (KLZ_WT17)	08:47		09:28 (SAM_WT06)
	21:48	8	06:32 (EAM_WT02)	20:55	6	07:14 (SAM_WT10)	19:46			18:40	21	18:12 (EVE_WT01)	16:50	52	16:13 (KLZ_WT20)	16:40	123	16:06 (KLZ_WT20)
23	05:56		06:25 (EAM_WT01)	06:43		07:09 (SAM_WT10)	07:32		07:56 (SAM_WT02)	08:21		08:47 (SAM_WT08)	08:14		09:26 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:47	8	06:33 (EAM_WT02)	20:53	3	07:12 (SAM_WT10)	19:44	4	08:00 (SAM_WT02)	18:38	26	09:16 (KLZ_WT02)	16:49	60	16:13 (KLZ_WT20)	16:41	123	16:06 (KLZ_WT20)
24	05:58		06:26 (EAM_WT02)	06:44			07:33		07:58 (SAM_WT02)	08:23		08:49 (SAM_WT08)	08:16		09:23 (SAM_WT06)	08:48		09:28 (SAM_WT06)
	21:45	7	06:33 (EAM_WT02)	20:50			19:41	3	08:01 (SAM_WT02)	18:36	22	09:15 (KLZ_WT02)	16:48	71	16:14 (KLZ_WT20)	16:41	124	16:07 (KLZ_WT20)
25	05:59		06:28 (EAM_WT02)	06:46		07:12 (SAM_WT09)	07:35		07:59 (SAM_WT02)	07:24		07:51 (SAM_WT08)	08:17		09:22 (SAM_WT06)	08:48		09:29 (SAM_WT06)
	21:44	6	06:34 (EAM_WT02)	20:48	4	07:16 (SAM_WT09)	19:39	2	08:01 (SAM_WT02)	17:34	17	08:13 (KLZ_WT02)	16:47	78	16:14 (KLZ_WT20)	16:42	124	16:08 (KLZ_WT20)
26	06:00		06:29 (EAM_WT02)	06:48		07:14 (SAM_WT09)	07:36		08:01 (SWB_WT01_RP)	07:26		07:53 (SAM_WT08)	08:19		09:21 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:43	5	06:34 (EAM_WT02)	20:46	3	07:17 (SAM_WT09)	19:37	2	08:03 (SWB_WT01_RP)	17:32	6	08:09 (KLZ_WT02)	16:46	81	16:13 (KLZ_WT20)	16:43	124	16:08 (KLZ_WT20)
27	06:02		06:30 (EAM_WT02)	06:49		07:15 (SAM_WT09)	07:38		08:03 (SWB_WT01_RP)	07:28		07:54 (SAM_WT08)	08:20		09:20 (SAM_WT06)	08:49		09:29 (SAM_WT06)
	21:41	5	06:35 (EAM_WT03)	20:44	2	07:17 (SAM_WT09)	19:34	10	08:32 (KLZ_WT01)	17:30	3	07:57 (SAM_WT08)	16:45	85	16:13 (KLZ_WT20)	16:43	125	16:09 (KLZ_WT20)
28	06:03		06:32 (EAM_WT02)	06:51		07:17 (SAM_WT09)	07:40		08:21 (KLZ_WT01)	07:30			08:22		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:40	5	06:37 (EAM_WT03)	20:42	1	07:18 (SAM_WT09)	19:32	12	08:33 (KLZ_WT01)	17:28			16:44	88	16:12 (KLZ_WT20)	16:44	124	16:10 (KLZ_WT20)
29	06:05		06:33 (EAM_WT02)	06:52			07:41		08:20 (KLZ_WT01)	07:31			08:23		09:20 (SAM_WT06)	08:49		09:30 (SAM_WT06)
	21:38	4	06:37 (EAM_WT03)	20:40			19:30	14	08:34 (KLZ_WT01)	17:26			16:43	94	16:11 (KLZ_WT20)	16:45	125	16:10 (KLZ_WT20)
30	06:06		06:34 (EAM_WT03)	06:54			07:43		08:18 (KLZ_WT01)	07:33			08:25		09:20 (SAM_WT06)	08:50		09:31 (SAM_WT06)
	21:37	4	06:38 (EAM_WT03)	20:38			19:28	16	08:34 (KLZ_WT01)	17:25			16:43	98	16:10 (KLZ_WT20)	16:46	124	16:11 (KLZ_WT20)
31	06:07		06:36 (EAM_WT03)	06:55						07:35						08:50		09:31 (SAM_WT06)
	21:35	2	06:38 (EAM_WT03)	20:35						17:23						16:47	124	16:12 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		190			170			94			477			1075			3716	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,66			0,59			0,57			0,66			0,63	
Total reduction		0,31			0,30			0,25			0,20			0,17			0,14	
Total, real		58			51			23			96			185			516	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:08 (SAM_WT07)	08:24			07:32		17:40 (KLZ_WT20)	07:23		07:45 (SWB_WT01_RP)	06:20			05:36		06:24 (KLZ_WT01)
	16:48	77	15:14 (KLZ_WT21)	17:35			18:25	19	17:59 (KLZ_WT13)	20:17	31	19:30 (KLZ_WT05)	21:06			21:51	79	19:56 (KLZ_WT04)
2	08:50		10:09 (SAM_WT07)	08:22			07:30		17:39 (KLZ_WT20)	07:21		07:43 (SWB_WT01_RP)	06:18			05:36		06:25 (KLZ_WT01)
	16:49	74	15:14 (KLZ_WT21)	17:36			18:26	22	18:01 (KLZ_WT13)	20:19	32	19:31 (KLZ_WT05)	21:08			21:52	78	19:57 (KLZ_WT04)
3	08:49		10:10 (SAM_WT07)	08:21			07:28		17:39 (KLZ_WT20)	07:19		19:01 (KLZ_WT05)	06:16			05:35		06:03 (SAM_WT10)
	16:50	70	15:13 (KLZ_WT21)	17:38			18:28	24	18:03 (EVE_WT02)	20:20	30	19:31 (KLZ_WT05)	21:09			21:53	79	19:57 (KLZ_WT04)
4	08:49		10:10 (SAM_WT07)	08:19		08:57 (SAM_WT06)	07:26		17:38 (KLZ_WT20)	07:16		19:01 (KLZ_WT05)	06:15		06:39 (SAM_WT09)	05:34		06:02 (SAM_WT10)
	16:51	65	15:12 (KLZ_WT21)	17:40	7	09:04 (SAM_WT06)	18:30	27	18:05 (EVE_WT02)	20:22	30	19:31 (KLZ_WT05)	21:11	2	06:41 (SAM_WT09)	21:54	81	19:58 (KLZ_WT04)
5	08:49		10:12 (SAM_WT07)	08:18		08:53 (SAM_WT06)	07:24		17:37 (KLZ_WT20)	07:14		19:01 (KLZ_WT05)	06:13		06:37 (SAM_WT09)	05:33		06:02 (SAM_WT10)
	16:52	60	15:11 (KLZ_WT21)	17:42	15	09:08 (SAM_WT06)	18:32	29	18:06 (EVE_WT02)	20:24	30	19:31 (KLZ_WT05)	21:13	3	06:40 (SAM_WT09)	21:55	81	19:59 (KLZ_WT04)
6	08:49		10:12 (SAM_WT07)	08:16		08:51 (SAM_WT06)	07:21		07:44 (SAM_WT08)	07:12		07:34 (SAM_WT02)	06:11		06:35 (SAM_WT09)	05:33		06:01 (SAM_WT10)
	16:54	52	13:14 (KLZ_WT23)	17:44	19	09:10 (SAM_WT06)	18:33	33	18:07 (KLZ_WT20)	20:25	31	19:30 (KLZ_WT05)	21:14	4	06:39 (SAM_WT09)	21:56	81	19:59 (KLZ_WT04)
7	08:48		09:18 (SAM_WT04)	08:15		08:49 (SAM_WT06)	07:19		07:42 (SAM_WT08)	07:10		07:32 (SAM_WT02)	06:09		06:34 (SAM_WT09)	05:32		06:01 (SAM_WT10)
	16:55	49	13:14 (KLZ_WT23)	17:45	22	09:11 (SAM_WT06)	18:35	35	18:07 (KLZ_WT20)	20:27	32	19:29 (KLZ_WT05)	21:16	4	06:38 (SAM_WT09)	21:56	82	20:00 (KLZ_WT04)
8	08:48		09:17 (SAM_WT04)	08:13		08:48 (SAM_WT06)	07:17		07:40 (SAM_WT08)	07:08		07:30 (SAM_WT02)	06:08			05:32		06:00 (SAM_WT10)
	16:56	48	13:14 (KLZ_WT23)	17:47	25	09:13 (SAM_WT06)	18:37	38	18:08 (KLZ_WT06)	20:29	31	19:28 (KLZ_WT05)	21:17			21:57	86	20:00 (KLZ_WT04)
9	08:47		09:17 (SAM_WT04)	08:11		08:47 (SAM_WT06)	07:15		07:37 (SAM_WT08)	07:05		07:28 (SAM_WT02)	06:06			05:31		06:00 (SAM_WT10)
	16:57	43	13:14 (KLZ_WT23)	17:49	27	09:14 (SAM_WT06)	18:38	40	18:08 (KLZ_WT06)	20:30	32	19:28 (KLZ_WT05)	21:19			21:58	89	20:00 (KLZ_WT04)
10	08:47		09:16 (SAM_WT04)	08:09		08:46 (SAM_WT06)	07:13		07:35 (SAM_WT08)	07:03		19:03 (KLZ_WT05)	06:04			05:31		06:00 (SAM_WT10)
	16:59	35	13:13 (KLZ_WT23)	17:51	29	09:15 (SAM_WT06)	18:40	42	18:09 (KLZ_WT06)	20:32	23	19:26 (KLZ_WT05)	21:21			21:59	89	20:01 (KLZ_WT04)
11	08:46		09:15 (SAM_WT04)	08:08		08:45 (SAM_WT06)	07:10		07:34 (SAM_WT08)	07:01		19:04 (KLZ_WT05)	06:03			05:30		05:59 (SAM_WT10)
	17:00	34	13:12 (KLZ_WT23)	17:53	31	09:16 (SAM_WT06)	18:42	44	18:17 (KLZ_WT12)	20:33	20	19:24 (KLZ_WT05)	21:22			22:00	92	20:01 (KLZ_WT04)
12	08:46		09:15 (SAM_WT04)	08:06		08:45 (SAM_WT06)	07:08		07:36 (SAM_WT08)	06:59		19:06 (KLZ_WT05)	06:01			05:30		05:59 (SAM_WT10)
	17:02	34	13:12 (KLZ_WT23)	17:54	31	09:16 (SAM_WT06)	18:44	42	18:19 (KLZ_WT12)	20:35	16	19:22 (KLZ_WT05)	21:24			22:00	90	20:01 (KLZ_WT04)
13	08:45		09:14 (SAM_WT04)	08:04		08:44 (SAM_WT06)	07:06		17:40 (KLZ_WT20)	06:57		07:19 (SAM_WT03)	05:59			05:30		05:59 (SAM_WT10)
	17:03	32	13:11 (KLZ_WT23)	17:56	33	09:17 (SAM_WT06)	18:45	37	18:20 (KLZ_WT12)	20:37	14	19:20 (KLZ_WT05)	21:25			22:01	91	20:02 (KLZ_WT04)
14	08:44		09:13 (SAM_WT04)	08:02		08:44 (SAM_WT06)	07:04		17:42 (KLZ_WT20)	06:55		07:17 (SAM_WT03)	05:58		06:29 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:05	30	13:09 (KLZ_WT23)	17:58	33	09:17 (SAM_WT06)	18:47	37	18:22 (KLZ_WT12)	20:38	5	07:22 (SAM_WT03)	21:27	19	19:30 (KLZ_WT04)	22:02	91	20:02 (KLZ_WT04)
15	08:44		09:12 (SAM_WT04)	08:00		08:43 (SAM_WT06)	07:02		17:45 (KLZ_WT20)	06:52		07:15 (SAM_WT03)	05:56		06:27 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:06	27	13:07 (KLZ_WT23)	18:00	34	09:17 (SAM_WT06)	18:49	35	18:24 (KLZ_WT12)	20:40	7	07:22 (SAM_WT03)	21:28	33	19:35 (KLZ_WT04)	22:02	94	20:03 (KLZ_WT04)
16	08:43		09:11 (SAM_WT04)	07:58		08:43 (SAM_WT06)	06:59		17:53 (KLZ_WT06)	06:50		07:13 (SAM_WT03)	05:55		06:26 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:08	15	09:26 (SAM_WT11)	18:02	34	09:17 (SAM_WT06)	18:50	28	18:26 (KLZ_WT12)	20:42	8	07:21 (SAM_WT03)	21:30	40	19:38 (KLZ_WT04)	22:03	95	20:03 (KLZ_WT04)
17	08:42		09:10 (SAM_WT04)	07:56		08:43 (SAM_WT06)	06:57		17:55 (KLZ_WT06)	06:48		07:12 (SAM_WT03)	05:53		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:09	17	09:27 (SAM_WT11)	18:03	34	09:17 (SAM_WT06)	18:52	21	18:25 (KLZ_WT12)	20:43	8	07:20 (SAM_WT03)	21:31	47	19:39 (KLZ_WT04)	22:03	94	20:03 (KLZ_WT04)
18	08:41		09:09 (SAM_WT04)	07:55		08:43 (SAM_WT06)	06:55		18:13 (KLZ_WT12)	06:46		07:13 (SAM_WT03)	05:52		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:11	18	09:27 (SAM_WT11)	18:05	34	09:17 (SAM_WT06)	18:54	11	18:24 (KLZ_WT12)	20:45	5	07:18 (SAM_WT03)	21:33	52	19:41 (KLZ_WT04)	22:03	95	20:04 (KLZ_WT04)
19	08:40		09:08 (SAM_WT11)	07:53		08:44 (SAM_WT06)	06:53		18:15 (KLZ_WT12)	06:44			05:51		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:12	19	09:27 (SAM_WT11)	18:07	32	09:16 (SAM_WT06)	18:55	9	18:31 (EVE_WT01)	20:47			21:34	56	19:43 (KLZ_WT04)	22:04	96	20:04 (KLZ_WT04)
20	08:39		09:07 (SAM_WT11)	07:51		08:44 (SAM_WT06)	06:50		18:29 (EVE_WT01)	06:42			05:49		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:14	21	09:28 (SAM_WT11)	18:09	32	09:16 (SAM_WT06)	18:57	3	18:32 (EVE_WT01)	20:48			21:35	60	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
21	08:38		09:05 (SAM_WT11)	07:49		08:45 (SAM_WT06)	06:48		18:27 (EVE_WT01)	06:40			05:48		06:22 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:16	22	09:27 (SAM_WT11)	18:11	30	09:15 (SAM_WT06)	18:59	6	18:33 (EVE_WT01)	20:50			21:37	63	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
22	08:37		09:05 (SAM_WT11)	07:47		08:45 (SAM_WT06)	06:46		18:27 (EVE_WT01)	06:38		07:01 (SAM_WT01)	05:47		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:17	23	09:28 (SAM_WT11)	18:12	29	09:14 (SAM_WT06)	19:00	8	18:35 (EVE_WT01)	20:52	2	07:03 (SAM_WT01)	21:38	66	19:47 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
23	08:36		09:06 (SAM_WT11)	07:45		08:46 (SAM_WT06)	06:43		18:28 (EVE_WT01)	06:36		06:59 (SAM_WT01)	05:45		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:19	22	09:28 (SAM_WT11)	18:14	27	09:13 (SAM_WT06)	19:02	9	18:37 (EVE_WT01)	20:53	2	07:01 (SAM_WT01)	21:40	68	19:48 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
24	08:35		09:06 (SAM_WT11)	07:43		08:48 (SAM_WT06)	06:41		18:28 (EVE_WT01)	06:34		06:57 (SAM_WT01)	05:44		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:21	21	09:27 (SAM_WT11)	18:16	23	09:11 (SAM_WT06)	19:04	10	18:38 (EVE_WT01)	20:55	2	06:59 (SAM_WT01)	21:41	71	19:49 (KLZ_WT04)	22:05	96	20:05 (KLZ_WT04)
25	08:34		09:07 (SAM_WT11)	07:40		08:49 (SAM_WT06)	06:39		18:30 (EVE_WT01)	06:32			05:43		06:22 (KLZ_WT01)	05:31		06:00 (SAM_WT10)
	17:22	20	09:27 (SAM_WT11)	18:18	25	17:52 (KLZ_WT20)	19:05	6	18:36 (EVE_WT01)	20:56			21:42	72	19:50 (KLZ_WT04)	22:05	95	20:05 (KLZ_WT04)
26	08:32		09:09 (SAM_WT11)	07:38		08:51 (SAM_WT06)	06:37		18:15 (KLZ_WT05)	06:30			05:42		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:24	18	09:27 (SAM_WT11)	18:19	24	17:54 (KLZ_WT13)	19:07	7	18:22 (KLZ_WT05)	20:58			21:43	74	19:51 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
27	08:31		09:09 (SAM_WT11)	07:36		08:55 (SAM_WT06)	06:34		18:11 (KLZ_WT05)	06:28			05:41		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:26	16	09:25 (SAM_WT11)	18:21	21	17:56 (KLZ_WT13)	19:09	14	18:25 (KLZ_WT05)	21:00			21:45	75	19:52 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
28	08:30		09:11 (SAM_WT11)	07:34		17:41 (KLZ_WT20)	06:32		18:08 (KLZ_WT05)	06:26			05:40		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:27	14	09:25 (SAM_WT11)	18:23	16	17:57 (KLZ_WT13)	19:10	18	18:26 (KLZ_WT05)	21:01			21:46	75	19:52 (KLZ_WT04)	22:05	93	20:06 (KLZ_WT04)
29	08:28		09:13 (SAM_WT11)				07:30		19:06 (KLZ_WT05)	06:24			05:39		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:29	9	09:22 (SAM_WT11)				20:12	22	19:28 (KLZ_WT05)	21:03			21:47	77	19:53 (KLZ_WT04)	22:05	91	20:05 (KLZ_WT04)
30	08:27						07:28		19:05 (KLZ_WT05)	06:22			05:38		06:23 (KLZ_WT01)	05:33		06:03 (SAM_WT10)
	17:31						20:14	25	19:30 (KLZ_WT05)	21:05			21:48	78	19:55 (KLZ_WT04)	22:04	90	20:06 (KLZ_WT04)
31	08:25						07:25		07:48 (SWB_WT01_RP)				05:37		06:24 (KLZ_WT01)			
	17:33						20:15	29	19:31 (KLZ_WT05)				21:49	77	19:55 (KLZ_WT04)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		985			667			730			391			1116			2704	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,61			0,56			0,64			0,63			0,59			0,59	
Total reduction		0,15			0,16			0,24			0,28			0,26			0,26	
Total, real		147			110			173			111			294			690	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (SAM_WT10)	06:09			06:57		19:04 (KLZ_WT05)	07:44		18:19 (KLZ_WT20)	07:36		08:16 (SAM_WT06)	08:26		08:57 (SAM_WT04)
	22:04	92 20:06 (KLZ_WT04)	21:34			20:33	20	19:24 (KLZ_WT05)	19:25	35	18:58 (KLZ_WT12)	17:21	28	08:44 (SAM_WT06)	16:42	34	12:54 (KLZ_WT23)
2	05:34	06:04 (SAM_WT10)	06:10			06:59		19:01 (KLZ_WT05)	07:46		08:14 (SAM_WT08)	07:38		08:17 (SAM_WT06)	08:27		08:59 (SAM_WT04)
	22:04	90 20:05 (KLZ_WT04)	21:32			20:31	23	19:24 (KLZ_WT05)	19:23	43	18:56 (KLZ_WT12)	17:19	27	08:44 (SAM_WT06)	16:41	35	12:56 (KLZ_WT23)
3	05:35	06:05 (SAM_WT10)	06:12			07:00		07:26 (SAM_WT02)	07:48		08:12 (SAM_WT08)	07:40		08:17 (SAM_WT06)	08:29		09:00 (SAM_WT04)
	22:04	90 20:06 (KLZ_WT04)	21:30			20:29	32	19:26 (KLZ_WT05)	19:21	43	18:54 (KLZ_WT12)	17:17	25	08:42 (SAM_WT06)	16:41	43	12:57 (KLZ_WT23)
4	05:36	06:06 (SAM_WT10)	06:13			07:02		07:27 (SAM_WT02)	07:49		08:14 (SAM_WT08)	07:42		08:19 (SAM_WT06)	08:30		09:02 (SAM_WT04)
	22:03	88 20:06 (KLZ_WT04)	21:29			20:27	31	19:25 (KLZ_WT05)	19:19	41	18:46 (KLZ_WT06)	17:16	22	08:41 (SAM_WT06)	16:40	47	12:59 (KLZ_WT23)
5	05:37	06:06 (SAM_WT10)	06:15			07:03		07:29 (SAM_WT02)	07:51		08:16 (SAM_WT08)	07:43		08:21 (SAM_WT06)	08:31		09:03 (SAM_WT04)
	22:03	83 20:05 (KLZ_WT04)	21:27			20:24	32	19:26 (KLZ_WT05)	19:16	39	18:45 (KLZ_WT06)	17:14	18	08:39 (SAM_WT06)	16:40	49	12:59 (KLZ_WT23)
6	05:37	06:07 (SAM_WT10)	06:16		06:44 (SAM_WT09)	07:05		07:30 (SAM_WT02)	07:52		08:17 (SAM_WT08)	07:45		08:23 (SAM_WT06)	08:33		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:25	4	06:48 (SAM_WT09)	20:22	31	19:26 (KLZ_WT05)	19:14	36	18:43 (KLZ_WT06)	17:12	14	08:37 (SAM_WT06)	16:39	51	13:00 (KLZ_WT23)
7	05:38	06:08 (SAM_WT10)	06:18		06:46 (SAM_WT09)	07:06		18:57 (KLZ_WT05)	07:54		08:19 (SAM_WT08)	07:47		08:27 (SAM_WT06)	08:34		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:24	3	06:49 (SAM_WT09)	20:20	29	19:26 (KLZ_WT05)	19:12	34	18:43 (KLZ_WT20)	17:11	6	08:33 (SAM_WT06)	16:39	59	14:57 (KLZ_WT21)
8	05:39	06:09 (SAM_WT10)	06:19		06:47 (SAM_WT09)	07:08		18:55 (KLZ_WT05)	07:56		08:21 (SAM_WT08)	07:49			08:35		09:59 (SAM_WT07)
	22:01	81 20:05 (KLZ_WT04)	21:22	3	06:50 (SAM_WT09)	20:18	30	19:25 (KLZ_WT05)	19:10	32	18:43 (KLZ_WT20)	17:09			16:39	64	15:00 (KLZ_WT21)
9	05:40	06:10 (SAM_WT10)	06:21		06:48 (SAM_WT09)	07:10		18:56 (KLZ_WT05)	07:57		18:12 (KLZ_WT20)	07:50			08:36		09:58 (SAM_WT07)
	22:00	80 20:05 (KLZ_WT04)	21:20	1	06:49 (SAM_WT09)	20:15	29	19:25 (KLZ_WT05)	19:08	28	18:40 (EVE_WT02)	17:07			16:38	69	15:01 (KLZ_WT21)
10	05:41	06:11 (SAM_WT10)	06:23			07:11		07:36 (SWB_WT01_RP)	07:59		18:13 (KLZ_WT20)	07:52			08:37		09:58 (SAM_WT07)
	22:00	79 20:05 (KLZ_WT04)	21:18			20:13	32	19:24 (KLZ_WT05)	19:05	25	18:38 (EVE_WT02)	17:06			16:38	74	15:03 (KLZ_WT21)
11	05:42	06:32 (KLZ_WT01)	06:24			07:13		07:38 (SWB_WT01_RP)	08:01		18:13 (KLZ_WT20)	07:54			08:38		09:58 (SAM_WT07)
	21:59	78 20:04 (KLZ_WT04)	21:16			20:11	31	19:23 (KLZ_WT05)	19:03	23	18:36 (KLZ_WT13)	17:04			16:38	77	15:04 (KLZ_WT21)
12	05:43	06:32 (KLZ_WT01)	06:26			07:14		07:39 (SWB_WT01_RP)	08:02		18:13 (KLZ_WT20)	07:56			08:39		09:58 (SAM_WT07)
	21:58	78 20:04 (KLZ_WT04)	21:14			20:09	29	19:22 (KLZ_WT05)	19:01	20	18:33 (KLZ_WT13)	17:03			16:38	79	15:05 (KLZ_WT21)
13	05:44	06:32 (KLZ_WT01)	06:27			07:16		07:41 (SWB_WT01_RP)	08:04		18:14 (KLZ_WT20)	07:57		08:45 (SAM_WT11)	08:40		09:58 (SAM_WT07)
	21:57	78 20:04 (KLZ_WT04)	21:12			20:06	26	19:21 (KLZ_WT05)	18:59	17	18:31 (KLZ_WT13)	17:01	9	08:54 (SAM_WT11)	16:38	82	15:06 (KLZ_WT21)
14	05:45	06:32 (KLZ_WT01)	06:29			07:17		18:56 (KLZ_WT05)	08:06		18:15 (KLZ_WT20)	07:59		08:43 (SAM_WT11)	08:41		09:59 (SAM_WT07)
	21:56	77 20:03 (KLZ_WT04)	21:11			20:04	23	19:19 (KLZ_WT05)	18:57	14	18:29 (KLZ_WT13)	17:00	14	08:57 (SAM_WT11)	16:38	83	15:07 (KLZ_WT21)
15	05:46	06:32 (KLZ_WT01)	06:30			07:19		18:58 (KLZ_WT05)	08:07		09:25 (SAM_WT06)	08:01		08:42 (SAM_WT11)	08:42		09:59 (SAM_WT07)
	21:56	76 20:02 (KLZ_WT04)	21:09			20:02	19	19:17 (KLZ_WT05)	18:55	23	18:27 (KLZ_WT13)	16:58	16	08:58 (SAM_WT11)	16:38	84	15:07 (KLZ_WT21)
16	05:47	06:32 (KLZ_WT01)	06:32			07:21		18:59 (KLZ_WT05)	08:09		09:22 (SAM_WT06)	08:02		08:42 (SAM_WT11)	08:43		09:59 (SAM_WT07)
	21:55	75 20:02 (KLZ_WT04)	21:07			19:59	15	19:14 (KLZ_WT05)	18:52	23	18:24 (KLZ_WT20)	16:57	18	09:00 (SAM_WT11)	16:38	87	15:08 (KLZ_WT21)
17	05:49	06:31 (KLZ_WT01)	06:33			07:22		19:02 (KLZ_WT05)	08:11		09:20 (SAM_WT06)	08:04		08:41 (SAM_WT11)	08:44		10:00 (SAM_WT07)
	21:54	75 20:01 (KLZ_WT04)	21:05			19:57	9	19:11 (KLZ_WT05)	18:50	23	18:22 (KLZ_WT20)	16:56	20	09:01 (SAM_WT11)	16:38	86	15:09 (KLZ_WT21)
18	05:50	06:31 (KLZ_WT01)	06:35			07:24		19:18 (EVE_WT01)	08:12		09:18 (SAM_WT06)	08:06		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:52	73 20:00 (KLZ_WT04)	21:03			19:55	5	19:23 (EVE_WT01)	18:48	25	09:43 (SAM_WT06)	16:55	21	09:01 (SAM_WT11)	16:39	88	15:09 (KLZ_WT21)
19	05:51	06:31 (KLZ_WT01)	06:37		07:03 (SAM_WT01)	07:25		19:16 (EVE_WT01)	08:14		09:17 (SAM_WT06)	08:07		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:51	71 19:59 (KLZ_WT04)	21:01	2	07:05 (SAM_WT01)	19:53	10	19:26 (EVE_WT01)	18:46	28	09:45 (SAM_WT06)	16:53	22	09:02 (SAM_WT11)	16:39	89	15:10 (KLZ_WT21)
20	05:52	06:31 (KLZ_WT01)	06:38		07:05 (SAM_WT01)	07:27		19:15 (EVE_WT01)	08:16		09:16 (SAM_WT06)	08:09		08:40 (SAM_WT11)	08:46		10:01 (SAM_WT07)
	21:50	70 19:58 (KLZ_WT04)	20:59	2	07:07 (SAM_WT01)	19:50	9	19:24 (EVE_WT01)	18:44	30	09:46 (SAM_WT06)	16:52	23	09:03 (SAM_WT11)	16:39	88	15:11 (KLZ_WT21)
21	05:54	06:32 (KLZ_WT01)	06:40		07:06 (SAM_WT01)	07:28		19:13 (EVE_WT01)	08:17		09:15 (SAM_WT06)	08:11		08:41 (SAM_WT11)	08:47		10:01 (SAM_WT07)
	21:49	68 19:58 (KLZ_WT04)	20:57	1	07:07 (SAM_WT01)	19:48	8	19:21 (EVE_WT01)	18:42	31	09:46 (SAM_WT06)	16:51	22	09:03 (SAM_WT11)	16:40	88	15:11 (KLZ_WT21)
22	05:55	06:32 (KLZ_WT01)	06:41			07:30		19:13 (EVE_WT01)	08:19		09:14 (SAM_WT06)	08:12		08:43 (SAM_WT11)	08:47		10:02 (SAM_WT07)
	21:48	65 19:57 (KLZ_WT04)	20:55			19:46	7	19:20 (EVE_WT01)	18:40	32	09:46 (SAM_WT06)	16:50	21	09:04 (SAM_WT11)	16:40	88	15:12 (KLZ_WT21)
23	05:56	06:32 (KLZ_WT01)	06:43			07:32		19:12 (EVE_WT01)	08:21		09:14 (SAM_WT06)	08:14		08:44 (SAM_WT11)	08:48		10:02 (SAM_WT07)
	21:47	62 19:55 (KLZ_WT04)	20:52			19:43	5	19:17 (EVE_WT01)	18:38	33	09:47 (SAM_WT06)	16:49	19	09:03 (SAM_WT11)	16:41	88	15:12 (KLZ_WT21)
24	05:58	06:33 (KLZ_WT01)	06:44			07:33		18:59 (KLZ_WT12)	08:23		09:14 (SAM_WT06)	08:16		08:46 (SAM_WT04)	08:48		10:02 (SAM_WT07)
	21:45	58 19:54 (KLZ_WT04)	20:50			19:41	7	19:15 (EVE_WT01)	18:36	33	09:47 (SAM_WT06)	16:48	18	09:04 (SAM_WT11)	16:41	88	15:12 (KLZ_WT21)
25	05:59	06:34 (KLZ_WT01)	06:46		07:16 (SAM_WT03)	07:35		18:56 (KLZ_WT12)	07:24		08:14 (SAM_WT06)	08:17		08:48 (SAM_WT04)	08:48		10:04 (SAM_WT07)
	21:44	55 19:53 (KLZ_WT04)	20:48	5	07:21 (SAM_WT03)	19:39	10	19:06 (KLZ_WT12)	17:34	33	08:47 (SAM_WT06)	16:47	17	09:05 (SAM_WT11)	16:42	88	15:13 (KLZ_WT21)
26	06:00	06:34 (KLZ_WT01)	06:48		07:14 (SAM_WT03)	07:36		18:39 (KLZ_WT06)	07:26		08:14 (SAM_WT06)	08:19		08:49 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:43	51 19:51 (KLZ_WT04)	20:46	9	07:23 (SAM_WT03)	19:37	18	19:07 (KLZ_WT12)	17:32	33	08:47 (SAM_WT06)	16:46	15	09:04 (SAM_WT11)	16:43	86	15:13 (KLZ_WT21)
27	06:02	06:35 (KLZ_WT01)	06:49		07:15 (SAM_WT03)	07:38		18:36 (KLZ_WT06)	07:28		08:13 (SAM_WT06)	08:20		08:51 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:41	45 19:49 (KLZ_WT04)	20:44	8	07:23 (SAM_WT03)	19:34	26	19:08 (KLZ_WT12)	17:30	33	08:46 (SAM_WT06)	16:45	27	12:46 (KLZ_WT23)	16:43	87	15:13 (KLZ_WT21)
28	06:03	06:37 (KLZ_WT01)	06:51		07:17 (SAM_WT03)	07:40		18:27 (KLZ_WT20)	07:30		08:13 (SAM_WT06)	08:22		08:53 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:40	37 19:47 (KLZ_WT04)	20:42	6	07:23 (SAM_WT03)	19:32	33	19:05 (KLZ_WT12)	17:28	33	08:46 (SAM_WT06)	16:44	30	12:49 (KLZ_WT23)	16:44	84	15:13 (KLZ_WT21)
29	06:05	06:38 (KLZ_WT01)	06:52		07:18 (SAM_WT03)	07:41		18:23 (KLZ_WT20)	07:31		08:14 (SAM_WT06)	08:23		08:54 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:38	28 19:44 (KLZ_WT04)	20:40	5	07:23 (SAM_WT03)	19:30	36	19:03 (KLZ_WT12)	17:26	32	08:46 (SAM_WT06)	16:43	33	12:51 (KLZ_WT23)	16:45	83	15:13 (KLZ_WT21)
30	06:06	19:28 (KLZ_WT04)	06:54		07:20 (SAM_WT03)	07:43		18:20 (KLZ_WT20)	07:33		08:14 (SAM_WT06)	08:25		08:56 (SAM_WT04)	08:50		10:06 (SAM_WT07)
	21:37	10 19:38 (KLZ_WT04)	20:38	14	19:21 (KLZ_WT05)	19:28	37	19:00 (KLZ_WT12)	17:25	32	08:46 (SAM_WT06)	16:43	34	12:53 (KLZ_WT23)	16:46	82	15:14 (KLZ_WT21)
31	06:07		06:55		19:05 (KLZ_WT05)				07:35		08:15 (SAM_WT06)				08:50		10:07 (SAM_WT07)
	21:35		20:35	17	19:22 (KLZ_WT05)				17:23	30	08:45 (SAM_WT06)				16:47	79	15:14 (KLZ_WT21)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		2077		80			652			937			519			2309	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98		0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,59		0,64			0,63			0,60			0,56			0,66	
Total reduction		0,26		0,29			0,27			0,21			0,15			0,14	
Total, real		534		23			174			198			76			334	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	124	15:47 (KLZ_WT22)	17:35	97	11:58 (KLZ_WT23)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	123	15:47 (KLZ_WT22)	17:36	98	11:58 (KLZ_WT23)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	121	15:47 (KLZ_WT22)	17:38	99	11:58 (KLZ_WT23)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	120	15:46 (KLZ_WT22)	17:40	98	11:58 (KLZ_WT23)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	118	15:46 (KLZ_WT22)	17:42	100	11:58 (KLZ_WT23)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	111	15:13 (KLZ_WT21)	17:44	102	11:57 (KLZ_WT23)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	111	15:14 (KLZ_WT21)	17:45	104	11:57 (KLZ_WT23)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	110	15:13 (KLZ_WT21)	17:47	104	11:57 (KLZ_WT23)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	110	15:14 (KLZ_WT21)	17:49	105	11:56 (KLZ_WT23)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	108	15:14 (KLZ_WT21)	17:51	104	11:56 (KLZ_WT23)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	104	15:14 (KLZ_WT21)	17:53	103	11:55 (KLZ_WT23)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46		10:49 (KLZ_WT23)	08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02	99	15:14 (KLZ_WT21)	17:54	100	11:54 (KLZ_WT23)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45		10:49 (KLZ_WT23)	08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03	99	15:14 (KLZ_WT21)	17:56	97	11:53 (KLZ_WT23)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44		10:49 (KLZ_WT23)	08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05	99	15:14 (KLZ_WT21)	17:58	91	11:51 (KLZ_WT23)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44		10:49 (KLZ_WT23)	08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06	99	15:14 (KLZ_WT21)	18:00	84	11:50 (KLZ_WT23)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43		10:49 (KLZ_WT23)	07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08	98	15:13 (KLZ_WT21)	18:02	76	11:49 (KLZ_WT23)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42		10:49 (KLZ_WT23)	07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09	96	15:13 (KLZ_WT21)	18:03	69	11:47 (KLZ_WT23)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41		10:49 (KLZ_WT23)	07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11	96	15:13 (KLZ_WT21)	18:05	65	11:45 (KLZ_WT23)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40		10:49 (KLZ_WT23)	07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12	94	15:12 (KLZ_WT21)	18:07	58	11:42 (KLZ_WT23)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39		10:49 (KLZ_WT23)	07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14	93	15:11 (KLZ_WT21)	18:09	52	11:40 (KLZ_WT23)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38		10:48 (KLZ_WT23)	07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16	91	15:09 (KLZ_WT21)	18:11	41	11:36 (KLZ_WT23)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37		10:48 (KLZ_WT23)	07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17	87	15:08 (KLZ_WT21)	18:12	26	11:31 (KLZ_WT23)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	91	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	91	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	86	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	88	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	91	11:57 (KLZ_WT23)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	91	11:57 (KLZ_WT23)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	94	11:57 (KLZ_WT23)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	95	11:58 (KLZ_WT23)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	97	11:58 (KLZ_WT23)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		3135			1873			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,63			0,58			0,60			0,60			0,57			0,71	
Total reduction		0,15			0,17			0,22			0,27			0,25			0,31	
Total, real		479			320			171			277			39			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 8 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	06:10 (KLZ_WT01)	21:34		06:38 (SAM_WT09)	20:33		20:03 (EVE_WT01)	19:25		18:58 (KLZ_WT13)	17:21		11:25 (KLZ_WT23)	16:42		14:56 (KLZ_WT21)
2	05:34	06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:32			20:31		20:03 (EVE_WT01)	19:23		08:32 (SAM_WT06)	17:19		11:26 (KLZ_WT23)	16:41		14:57 (KLZ_WT21)
3	05:35	06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:30			20:29		20:03 (EVE_WT01)	19:21		08:28 (SAM_WT06)	17:17		11:26 (KLZ_WT23)	16:41		14:57 (KLZ_WT21)
4	05:36	06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	06:09 (KLZ_WT01)	21:29		20:11 (KLZ_WT06)	20:27		20:00 (EVE_WT01)	19:19			17:16		11:27 (KLZ_WT23)	16:40		14:58 (KLZ_WT21)
5	05:37	06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	06:07 (KLZ_WT01)	21:27		20:15 (KLZ_WT06)	20:24		19:58 (EVE_WT01)	19:16			17:14		11:27 (KLZ_WT23)	16:40		14:59 (KLZ_WT21)
6	05:37		06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02		21:25		20:16 (KLZ_WT06)	20:22		19:55 (EVE_WT01)	19:14			17:12		11:28 (KLZ_WT23)	16:39		14:59 (KLZ_WT21)
7	05:38		06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02		21:24		20:18 (KLZ_WT06)	20:20		19:54 (EVE_WT01)	19:12			17:11		11:28 (KLZ_WT23)	16:39		15:32 (KLZ_WT22)
8	05:39		06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01		21:22		20:19 (KLZ_WT06)	20:18		19:51 (EVE_WT01)	19:10			17:09		11:28 (KLZ_WT23)	16:39		15:34 (KLZ_WT22)
9	05:40		06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00		21:20		20:19 (KLZ_WT06)	20:15		19:49 (KLZ_WT12)	19:08			17:07		11:29 (KLZ_WT23)	16:38		15:35 (KLZ_WT22)
10	05:41		06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00		21:18		20:20 (KLZ_WT06)	20:13		19:46 (KLZ_WT12)	19:05			17:06		11:29 (KLZ_WT23)	16:38		15:36 (KLZ_WT22)
11	05:42		06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59		21:16		20:20 (KLZ_WT06)	20:11		19:43 (KLZ_WT20)	19:03			17:04		11:29 (KLZ_WT23)	16:38		15:37 (KLZ_WT22)
12	05:43		06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58		21:14		20:21 (KLZ_WT06)	20:09		19:42 (KLZ_WT20)	19:01			17:03		11:29 (KLZ_WT23)	16:38		15:38 (KLZ_WT22)
13	05:44		06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57		21:12		20:20 (KLZ_WT06)	20:06		19:40 (KLZ_WT20)	18:59			17:01		11:29 (KLZ_WT23)	16:38		15:39 (KLZ_WT22)
14	05:45		06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56		21:11		20:21 (KLZ_WT06)	20:04		19:37 (KLZ_WT20)	18:57			17:00		11:29 (KLZ_WT23)	16:38		15:40 (KLZ_WT22)
15	05:46		06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56		21:09		20:20 (KLZ_WT06)	20:02		19:35 (KLZ_WT20)	18:55			16:58		11:29 (KLZ_WT23)	16:38		15:40 (KLZ_WT22)
16	05:48		06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55		21:07		20:20 (KLZ_WT06)	19:59		19:33 (KLZ_WT20)	18:52			16:57		16:26 (KLZ_WT15)	16:38		15:41 (KLZ_WT22)
17	05:49		06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54		21:05		20:19 (KLZ_WT06)	19:57		19:31 (KLZ_WT20)	18:50			16:56		16:25 (KLZ_WT15)	16:38		15:42 (KLZ_WT22)
18	05:50		06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52		21:03		20:19 (KLZ_WT06)	19:55		19:28 (KLZ_WT20)	18:48			16:55		16:23 (KLZ_WT15)	16:39		15:42 (KLZ_WT22)
19	05:51		06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14		11:47 (KLZ_WT23)	08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51		21:01		20:18 (KLZ_WT06)	19:53		19:26 (KLZ_WT20)	18:46		11:57 (KLZ_WT23)	16:53		16:22 (KLZ_WT15)	16:39		15:43 (KLZ_WT22)
20	05:52		06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09		10:23 (KLZ_WT23)	08:46		09:20 (SAM_WT05)
	21:50		20:59		20:18 (KLZ_WT06)	19:50		19:24 (KLZ_WT20)	18:44		12:04 (KLZ_WT23)	16:52		14:43 (KLZ_WT21)	16:39		15:44 (KLZ_WT22)
21	05:54		06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11		10:24 (KLZ_WT23)	08:47		09:20 (SAM_WT05)
	21:49		20:57		20:16 (KLZ_WT06)	19:48		08:41 (SAM_WT06)	18:42		12:08 (KLZ_WT23)	16:51		14:45 (KLZ_WT21)	16:40		15:44 (KLZ_WT22)
22	05:55		06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12		10:25 (KLZ_WT23)	08:47		09:21 (SAM_WT05)
	21:48		20:55		20:14 (KLZ_WT06)	19:46		08:42 (SAM_WT06)	18:40		12:11 (KLZ_WT23)	16:50		14:47 (KLZ_WT21)	16:40		15:45 (KLZ_WT22)
23	05:56		06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14		10:25 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:47		20:52		20:12 (KLZ_WT06)	19:44		19:08 (KLZ_WT13)	18:38		12:14 (KLZ_WT23)	16:49		14:48 (KLZ_WT21)	16:41		15:45 (KLZ_WT22)
24	05:58		06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16		10:26 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:45		20:50		20:10 (KLZ_WT06)	19:41		19:10 (KLZ_WT13)	18:36		12:16 (KLZ_WT23)	16:48		14:50 (KLZ_WT21)	16:41		15:45 (KLZ_WT22)
25	05:59		06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17		10:27 (KLZ_WT23)	08:48		09:22 (SAM_WT05)
	21:44		20:48		19:31 (KLZ_WT20)	19:39		19:11 (KLZ_WT13)	17:34		11:18 (KLZ_WT23)	16:47		14:51 (KLZ_WT21)	16:42		15:46 (KLZ_WT22)
26	06:00		06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19		10:27 (KLZ_WT23)	08:49		09:22 (SAM_WT05)
	21:43		20:46		19:37 (KLZ_WT20)	19:37		19:10 (KLZ_WT13)	17:32		11:19 (KLZ_WT23)	16:46		14:51 (KLZ_WT21)	16:43		15:46 (KLZ_WT22)
27	06:02		06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20		10:28 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:41		20:44		19:39 (KLZ_WT20)	19:34		19:08 (KLZ_WT13)	17:30		11:20 (KLZ_WT23)	16:45		14:53 (KLZ_WT21)	16:43		15:46 (KLZ_WT22)
28	06:03		06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:40		20:42		19:42 (KLZ_WT20)	19:32		19:05 (KLZ_WT13)	17:28		11:21 (KLZ_WT23)	16:44		14:54 (KLZ_WT21)	16:44		15:46 (KLZ_WT22)
29	06:05		06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:38		20:40		19:56 (KLZ_WT12)	19:30		19:03 (KLZ_WT13)	17:26		11:23 (KLZ_WT23)	16:43		14:54 (KLZ_WT21)	16:45		15:47 (KLZ_WT22)
30	06:06		06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25		10:30 (KLZ_WT23)	08:50		09:24 (SAM_WT05)
	21:37		20:38		19:59 (KLZ_WT12)	19:28		19:00 (KLZ_WT13)	17:25		11:24 (KLZ_WT23)	16:43		14:55 (KLZ_WT21)	16:46		15:47 (KLZ_WT22)
31	06:08	06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	06:37 (SAM_WT09)	20:35		20:01 (EVE_WT01)				17:23		11:25 (KLZ_WT23)				16:47		15:47 (KLZ_WT22)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		20		644			1274			938			2883			3771	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98		0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71		0,58			0,61			0,58			0,61			0,65	
Total reduction		0,31		0,27			0,26			0,21			0,16			0,14	
Total, real		6		171			327			194			457			538	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

January			February			March			April			May			June		
1 | 08:50			| 08:24		09:22 (CBR_WT01)	| 07:32			| 07:23		07:47 (SAM_WT11)	| 06:20		17:25 (KLZ_WT21)	| 05:36		06:27 (SAM_WT06)
| 16:48			| 17:35	61	17:05 (KLZ_WT16)	| 18:25			| 20:17	73	18:52 (KLZ_WT21)	| 21:06	113	20:38 (KLZ_WT13)	| 21:50	124	21:13 (EVE_WT01)
2 | 08:49			| 08:22		09:22 (CBR_WT01)	| 07:30			| 07:21		07:48 (SAM_WT11)	| 06:18		17:25 (KLZ_WT21)	| 05:36		06:28 (SAM_WT06)
| 16:49			| 17:36	62	17:07 (KLZ_WT16)	| 18:26			| 20:19	75	18:54 (KLZ_WT21)	| 21:08	116	20:40 (KLZ_WT13)	| 21:52	120	21:13 (EVE_WT01)
3 | 08:49			| 08:21		09:22 (CBR_WT01)	| 07:28			| 07:19		07:47 (SAM_WT07)	| 06:16		17:25 (KLZ_WT21)	| 05:35		06:28 (SAM_WT06)
| 16:50			| 17:38	61	17:07 (KLZ_WT16)	| 18:28			| 20:20	80	18:57 (KLZ_WT21)	| 21:09	118	20:41 (KLZ_WT13)	| 21:53	114	19:14 (KLZ_WT21)
4 | 08:49			| 08:19		09:23 (CBR_WT01)	| 07:26			| 07:17		07:45 (SAM_WT07)	| 06:15		17:26 (KLZ_WT21)	| 05:34		06:29 (SAM_WT06)
| 16:51			| 17:40	60	16:58 (KLZ_WT22)	| 18:30			| 20:22	89	18:59 (KLZ_WT21)	| 21:11	119	20:43 (KLZ_WT13)	| 21:54	111	19:13 (KLZ_WT21)
5 | 08:49			| 08:18		09:23 (CBR_WT01)	| 07:24			| 07:14		07:43 (SAM_WT07)	| 06:13		17:25 (KLZ_WT21)	| 05:33		06:30 (SAM_WT06)
| 16:52			| 17:42	58	16:57 (KLZ_WT22)	| 18:32			| 20:24	96	19:01 (KLZ_WT21)	| 21:13	121	20:44 (KLZ_WT13)	| 21:55	110	19:14 (KLZ_WT21)
6 | 08:49			| 08:16		09:24 (CBR_WT01)	| 07:21			| 07:12		07:40 (SAM_WT07)	| 06:11		17:25 (KLZ_WT21)	| 05:33		06:30 (SAM_WT06)
| 16:54			| 17:44	56	16:57 (KLZ_WT22)	| 18:33			| 20:25	102	19:01 (KLZ_WT21)	| 21:14	122	20:45 (KLZ_WT13)	| 21:56	108	19:13 (KLZ_WT21)
7 | 08:48			| 08:14		09:25 (CBR_WT01)	| 07:19			| 07:10		07:39 (SAM_WT07)	| 06:09		17:26 (KLZ_WT21)	| 05:32		06:31 (SAM_WT06)
| 16:55			| 17:45	54	16:57 (KLZ_WT22)	| 18:35			| 20:27	107	19:03 (KLZ_WT21)	| 21:16	123	20:47 (KLZ_WT13)	| 21:56	108	19:14 (KLZ_WT21)
8 | 08:48			| 08:13		09:26 (CBR_WT01)	| 07:17			| 07:08		07:38 (SAM_WT07)	| 06:08		17:26 (KLZ_WT21)	| 05:32		06:31 (SAM_WT06)
| 16:56			| 17:47	51	16:57 (KLZ_WT22)	| 18:37			| 20:29	113	19:05 (KLZ_WT21)	| 21:17	124	20:48 (KLZ_WT13)	| 21:57	106	19:13 (KLZ_WT21)
9 | 08:47			| 08:11		09:28 (CBR_WT01)	| 07:15			| 07:05		07:38 (SAM_WT07)	| 06:06		06:32 (SAM_WT06)	| 05:31		06:33 (SAM_WT06)
| 16:58			| 17:49	47	16:57 (KLZ_WT22)	| 18:39			| 20:30	116	19:06 (KLZ_WT21)	| 21:19	134	20:49 (KLZ_WT13)	| 21:58	103	19:14 (KLZ_WT21)
10 | 08:47			| 08:09		09:29 (CBR_WT01)	| 07:13			| 07:03		07:37 (SAM_WT07)	| 06:04		06:29 (SAM_WT02)	| 05:31		06:34 (SAM_WT06)
| 16:59			| 17:51	42	16:56 (KLZ_WT22)	| 18:40			| 20:32	119	19:07 (KLZ_WT21)	| 21:21	136	20:48 (KLZ_WT13)	| 21:59	101	19:14 (KLZ_WT21)
11 | 08:46		09:31 (CBR_WT01)	| 08:08		09:31 (CBR_WT01)	| 07:10			| 07:01		07:37 (SAM_WT07)	| 06:03		06:29 (SAM_WT06)	| 05:31		06:35 (SAM_WT06)
| 17:00	4	09:35 (CBR_WT01)	| 17:53	36	16:55 (KLZ_WT22)	| 18:42			| 20:33	121	19:08 (KLZ_WT21)	| 21:22	134	20:47 (KLZ_WT13)	| 22:00	99	19:14 (KLZ_WT21)
12 | 08:46		09:28 (CBR_WT01)	| 08:06		09:34 (CBR_WT01)	| 07:08			| 06:59		07:35 (SAM_WT07)	| 06:01		06:27 (SAM_WT06)	| 05:30		06:35 (SAM_WT06)
| 17:02	10	09:38 (CBR_WT01)	| 17:54	27	16:54 (KLZ_WT22)	| 18:44			| 20:35	124	19:08 (KLZ_WT21)	| 21:24	135	20:45 (KLZ_WT13)	| 22:00	99	19:14 (KLZ_WT21)
13 | 08:45		09:27 (CBR_WT01)	| 08:04		16:38 (KLZ_WT22)	| 07:06		07:28 (SAM_WT04)	| 06:57		07:35 (SAM_WT07)	| 05:59		06:27 (SAM_WT06)	| 05:30		06:36 (SAM_WT06)
| 17:03	14	09:41 (CBR_WT01)	| 17:56	14	16:52 (KLZ_WT22)	| 18:45	1	07:29 (SAM_WT04)	| 20:37	127	19:09 (KLZ_WT21)	| 21:25	129	19:16 (KLZ_WT21)	| 22:01	96	19:14 (KLZ_WT21)
14 | 08:44		09:26 (CBR_WT01)	| 08:02		08:26 (SAM_WT05)	| 07:04		07:26 (SAM_WT04)	| 06:55		07:35 (SAM_WT07)	| 05:58		06:25 (SAM_WT06)	| 05:30		06:38 (SAM_WT06)
| 17:05	17	09:43 (CBR_WT01)	| 17:58	12	16:49 (KLZ_WT22)	| 18:47	4	07:30 (SAM_WT04)	| 20:38	129	19:10 (KLZ_WT21)	| 21:27	130	19:15 (KLZ_WT21)	| 22:01	94	19:14 (KLZ_WT21)
15 | 08:44		09:25 (CBR_WT01)	| 08:00		08:24 (SAM_WT05)	| 07:02		07:24 (SAM_WT04)	| 06:52		07:35 (SAM_WT07)	| 05:56		06:25 (SAM_WT06)	| 05:30		06:39 (SAM_WT06)
| 17:06	19	09:44 (CBR_WT01)	| 18:00	8	08:32 (SAM_WT05)	| 18:49	7	07:31 (SAM_WT04)	| 20:40	130	19:11 (KLZ_WT21)	| 21:28	131	19:16 (KLZ_WT21)	| 22:02	91	19:14 (KLZ_WT21)
16 | 08:43		09:24 (CBR_WT01)	| 07:58		08:22 (SAM_WT05)	| 06:59		07:22 (SAM_WT04)	| 06:50		07:13 (SAM_WT08)	| 05:55		06:25 (SAM_WT06)	| 05:29		17:46 (KLZ_WT21)
| 17:08	22	09:46 (CBR_WT01)	| 18:02	11	08:33 (SAM_WT05)	| 18:50	10	07:32 (SAM_WT04)	| 20:42	134	19:12 (KLZ_WT21)	| 21:30	131	19:16 (KLZ_WT21)	| 22:03	88	19:14 (KLZ_WT21)
17 | 08:42		09:23 (CBR_WT01)	| 07:56		08:20 (SAM_WT05)	| 06:57		07:19 (SAM_WT04)	| 06:48		07:11 (SAM_WT08)	| 05:53		06:24 (SAM_WT06)	| 05:29		17:47 (KLZ_WT21)
| 17:09	24	09:47 (CBR_WT01)	| 18:03	14	08:34 (SAM_WT05)	| 18:52	12	07:31 (SAM_WT04)	| 20:43	135	19:12 (KLZ_WT21)	| 21:31	131	19:15 (KLZ_WT21)	| 22:03	88	19:15 (KLZ_WT21)
18 | 08:41		09:23 (CBR_WT01)	| 07:55		08:18 (SAM_WT05)	| 06:55		07:17 (SAM_WT04)	| 06:46		07:09 (SAM_WT08)	| 05:52		06:24 (SAM_WT06)	| 05:29		17:47 (KLZ_WT21)
| 17:11	25	09:48 (CBR_WT01)	| 18:05	16	08:34 (SAM_WT05)	| 18:54	14	07:31 (SAM_WT04)	| 20:45	136	19:13 (KLZ_WT21)	| 21:33	132	21:03 (EVE_WT01)	| 22:03	88	19:15 (KLZ_WT21)
19 | 08:40		09:22 (CBR_WT01)	| 07:53		08:16 (SAM_WT05)	| 06:53		07:15 (SAM_WT04)	| 06:44		07:07 (SAM_WT08)	| 05:51		06:24 (SAM_WT06)	| 05:29		17:47 (KLZ_WT21)
| 17:12	28	09:50 (CBR_WT01)	| 18:07	19	08:35 (SAM_WT05)	| 18:55	16	07:31 (SAM_WT04)	| 20:47	139	20:20 (EVE_WT02)	| 21:34	132	21:04 (EVE_WT01)	| 22:04	88	19:15 (KLZ_WT21)
20 | 08:39		09:22 (CBR_WT01)	| 07:51		08:14 (SAM_WT05)	| 06:50		07:16 (SAM_WT04)	| 06:42		07:05 (SAM_WT08)	| 05:49		06:24 (SAM_WT06)	| 05:30		17:47 (KLZ_WT21)
| 17:14	29	09:51 (CBR_WT01)	| 18:09	21	08:35 (SAM_WT05)	| 18:57	14	07:30 (SAM_WT04)	| 20:48	140	20:22 (EVE_WT02)	| 21:35	135	21:06 (EVE_WT01)	| 22:04	88	19:15 (KLZ_WT21)
21 | 08:38		09:21 (CBR_WT01)	| 07:49		08:14 (SAM_WT05)	| 06:48		07:16 (SAM_WT04)	| 06:40		07:39 (SAM_WT07)	| 05:48		06:14 (SAM_WT03)	| 05:30		17:47 (KLZ_WT21)
| 17:16	30	09:51 (CBR_WT01)	| 18:11	23	17:44 (KLZ_WT15)	| 18:59	11	07:27 (SAM_WT04)	| 20:50	133	20:23 (EVE_WT02)	| 21:37	137	21:06 (EVE_WT01)	| 22:04	88	19:15 (KLZ_WT21)
22 | 08:37		09:21 (CBR_WT01)	| 07:47		08:14 (SAM_WT05)	| 06:46		07:18 (SAM_WT04)	| 06:38		07:40 (SAM_WT07)	| 05:47		06:13 (SAM_WT03)	| 05:30		17:48 (KLZ_WT21)
| 17:17	31	09:52 (CBR_WT01)	| 18:12	25	17:46 (KLZ_WT15)	| 19:00	7	07:25 (SAM_WT04)	| 20:52	134	20:25 (EVE_WT02)	| 21:38	138	21:07 (EVE_WT01)	| 22:05	88	19:16 (KLZ_WT21)
23 | 08:36		09:21 (CBR_WT01)	| 07:45		08:14 (SAM_WT05)	| 06:44			| 06:36		07:43 (SAM_WT07)	| 05:46		06:12 (SAM_WT03)	| 05:30		17:48 (KLZ_WT21)
| 17:19	32	09:53 (CBR_WT01)	| 18:14	26	17:48 (KLZ_WT15)	| 19:02			| 20:53	130	20:26 (EVE_WT02)	| 21:39	138	21:09 (EVE_WT01)	| 22:05	88	19:16 (KLZ_WT21)
24 | 08:35		09:20 (CBR_WT01)	| 07:43		08:15 (SAM_WT05)	| 06:41		07:03 (SAM_WT11)	| 06:34		07:48 (SAM_WT07)	| 05:44		06:11 (SAM_WT03)	| 05:30		17:48 (KLZ_WT21)
| 17:21	33	09:53 (CBR_WT01)	| 18:16	25	17:50 (KLZ_WT15)	| 19:04	4	07:07 (SAM_WT11)	| 20:55	121	20:28 (EVE_WT02)	| 21:41	137	21:10 (EVE_WT01)	| 22:05	88	19:16 (KLZ_WT21)
25 | 08:34		09:20 (CBR_WT01)	| 07:40		08:16 (SAM_WT05)	| 06:39		07:01 (SAM_WT11)	| 06:32		17:26 (KLZ_WT21)	| 05:43		06:24 (SAM_WT06)	| 05:31		17:49 (KLZ_WT21)
| 17:22	43	16:46 (KLZ_WT22)	| 18:18	21	17:50 (KLZ_WT15)	| 19:05	7	07:08 (SAM_WT11)	| 20:56	121	20:29 (EVE_WT02)	| 21:42	136	21:11 (EVE_WT01)	| 22:05	88	19:17 (KLZ_WT21)
26 | 08:32		09:21 (CBR_WT01)	| 07:38		08:17 (SAM_WT05)	| 06:37		06:59 (SAM_WT11)	| 06:30		17:26 (KLZ_WT21)	| 05:42		06:24 (SAM_WT06)	| 05:31		17:48 (KLZ_WT21)
| 17:24	47	16:49 (KLZ_WT22)	| 18:19	14	08:31 (SAM_WT05)	| 19:07	10	07:09 (SAM_WT11)	| 20:58	118	20:27 (EVE_WT02)	| 21:43	135	21:12 (EVE_WT01)	| 22:05	89	19:17 (KLZ_WT21)
27 | 08:31		09:20 (CBR_WT01)	| 07:36		08:20 (SAM_WT05)	| 06:34		06:57 (SAM_WT11)	| 06:28		17:26 (KLZ_WT21)	| 05:41		06:25 (SAM_WT06)	| 05:32		17:48 (KLZ_WT21)
| 17:26	51	16:50 (KLZ_WT22)	| 18:21	8	08:28 (SAM_WT05)	| 19:09	13	07:10 (SAM_WT11)	| 21:00	112	20:24 (EVE_WT02)	| 21:45	135	21:13 (EVE_WT01)	| 22:05	88	19:16 (KLZ_WT21)
28 | 08:30		09:21 (CBR_WT01)	| 07:34			| 06:32		06:54 (SAM_WT11)	| 06:26		17:25 (KLZ_WT21)	| 05:40		06:25 (SAM_WT06)	| 05:32		06:41 (SAM_WT06)
| 17:28	53	16:52 (KLZ_WT22)	| 18:23			| 19:10	25	17:32 (KLZ_WT21)	| 21:01	110	19:15 (KLZ_WT21)	| 21:46	134	21:14 (EVE_WT01)	| 22:05	92	19:17 (KLZ_WT21)
29 | 08:28		09:20 (CBR_WT01)	|			| 07:30		07:52 (SAM_WT11)	| 06:24		17:26 (KLZ_WT21)	| 05:39		06:26 (SAM_WT06)	| 05:33		06:40 (SAM_WT06)
| 17:29	56	16:53 (KLZ_WT22)	|			| 20:12	45	18:41 (KLZ_WT21)	| 21:03	110	19:16 (KLZ_WT21)	| 21:47	134	21:16 (EVE_WT01)	| 22:05	95	19:17 (KLZ_WT21)
30 | 08:27		09:21 (CBR_WT01)	|			| 07:28		07:50 (SAM_WT11)	| 06:22		17:26 (KLZ_WT21)	| 05:38		06:26 (SAM_WT06)	| 05:33		06:40 (SAM_WT06)
| 17:31	58	16:55 (KLZ_WT22)	|			| 20:14	58	18:46 (KLZ_WT21)	| 21:05	110	19:16 (KLZ_WT21)	| 21:48	131	21:15 (EVE_WT01)	| 22:04	98	19:18 (KLZ_WT21)
31 | 08:25		09:21 (CBR_WT01)	|			| 07:25		07:48 (SAM_WT11)	|			| 05:37		06:27 (SAM_WT06)	|		
| 17:33	61	17:03 (KLZ_WT16)	|			| 20:15	67	18:50 (KLZ_WT21)	|			| 21:49	127	21:14 (EVE_WT01)	|		
Potential sun hours | 262			| 279			| 367			| 415			| 482			| 495		
Total, worst case |	687		|	872		|	325		|	3484		|	4028		|	2926	
Sun reduction |	0,25		|	0,30		|	0,38		|	0,46		|	0,46		|	0,44	
Oper. time red. |	0,98		|	0,98		|	0,98		|	0,98		|	0,98		|	0,98	
Wind dir. red. |	0,56		|	0,61		|	0,62		|	0,63		|	0,64		|	0,64	
Total reduction |	0,14		|	0,18		|	0,23		|	0,29		|	0,28		|	0,28	
Total, real |	94		|	155		|	74		|	994		|	1143		|	806	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	99	19:18 (KLZ_WT21)	21:34	134	20:56 (KLZ_WT13)	20:33	121	19:07 (KLZ_WT21)	19:25			17:21	45	16:26 (KLZ_WT22)	16:42	4	09:17 (CBR_WT01)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		
	22:04	101	19:18 (KLZ_WT21)	21:32	135	20:58 (KLZ_WT13)	20:31	119	19:05 (KLZ_WT21)	19:23			17:19	48	16:27 (KLZ_WT22)	16:41		
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		
	22:04	103	19:19 (KLZ_WT21)	21:30	136	20:59 (KLZ_WT13)	20:29	116	19:04 (KLZ_WT21)	19:21			17:17	52	16:26 (KLZ_WT22)	16:41		
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		
	22:03	105	19:19 (KLZ_WT21)	21:29	132	20:59 (KLZ_WT13)	20:27	113	19:02 (KLZ_WT21)	19:19			17:16	55	16:27 (KLZ_WT22)	16:40		
5	05:37		06:37 (SAM_WT06)	06:15		17:36 (KLZ_WT21)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		
	22:03	106	19:19 (KLZ_WT21)	21:27	123	20:58 (KLZ_WT13)	20:24	107	19:00 (KLZ_WT21)	19:16			17:14	56	16:27 (KLZ_WT22)	16:40		
6	05:37		06:37 (SAM_WT06)	06:17		17:36 (KLZ_WT21)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		
	22:02	108	19:20 (KLZ_WT21)	21:25	122	20:56 (KLZ_WT13)	20:22	102	18:58 (KLZ_WT21)	19:14			17:12	58	16:27 (KLZ_WT22)	16:39		
7	05:38		06:36 (SAM_WT06)	06:18		17:36 (KLZ_WT21)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		
	22:02	109	19:20 (KLZ_WT21)	21:23	121	20:55 (KLZ_WT13)	20:20	96	18:56 (KLZ_WT21)	19:12			17:11	59	16:27 (KLZ_WT22)	16:39		
8	05:39		06:36 (SAM_WT06)	06:20		17:35 (KLZ_WT21)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		
	22:01	112	19:21 (KLZ_WT21)	21:22	121	20:53 (KLZ_WT13)	20:18	89	18:53 (KLZ_WT21)	19:10			17:09	62	16:39 (KLZ_WT16)	16:39		
9	05:40		06:36 (SAM_WT06)	06:21		17:34 (KLZ_WT21)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		
	22:00	113	19:21 (KLZ_WT21)	21:20	119	20:51 (KLZ_WT13)	20:15	80	18:51 (KLZ_WT21)	19:08			17:07	64	16:38 (KLZ_WT16)	16:38		
10	05:41		06:36 (SAM_WT06)	06:23		17:34 (KLZ_WT21)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		
	22:00	119	21:20 (EVE_WT01)	21:18	117	20:50 (KLZ_WT13)	20:13	77	18:48 (KLZ_WT21)	19:05			17:06	62	16:36 (KLZ_WT16)	16:38		
11	05:42		06:36 (SAM_WT06)	06:24		17:34 (KLZ_WT21)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		
	21:59	122	21:21 (EVE_WT01)	21:16	114	20:48 (KLZ_WT13)	20:11	73	18:45 (KLZ_WT21)	19:03			17:04	61	16:35 (KLZ_WT16)	16:38		
12	05:43		06:35 (SAM_WT06)	06:26		17:34 (KLZ_WT21)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		
	21:58	125	21:22 (EVE_WT01)	21:14	112	20:46 (KLZ_WT13)	20:09	67	18:41 (KLZ_WT21)	19:01			17:03	57	16:25 (KLZ_WT22)	16:38		
13	05:44		06:35 (SAM_WT06)	06:27		17:33 (KLZ_WT21)	07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		
	21:57	130	21:23 (EVE_WT01)	21:12	111	19:24 (KLZ_WT21)	20:06	59	18:38 (KLZ_WT21)	18:59			17:01	56	16:25 (KLZ_WT22)	16:38		
14	05:45		06:35 (SAM_WT06)	06:29		17:34 (KLZ_WT21)	07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		
	21:56	131	21:24 (EVE_WT01)	21:11	110	19:24 (KLZ_WT21)	20:04	47	18:32 (KLZ_WT21)	18:57	2	08:57 (SAM_WT05)	17:00	54	16:24 (KLZ_WT22)	16:38		
15	05:46		06:35 (SAM_WT06)	06:30		17:33 (KLZ_WT21)	07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		
	21:55	134	21:24 (EVE_WT01)	21:09	110	19:23 (KLZ_WT21)	20:02	30	18:25 (KLZ_WT21)	18:55	11	09:02 (SAM_WT05)	16:59	51	16:23 (KLZ_WT22)	16:38		
16	05:48		06:34 (SAM_WT06)	06:32		17:33 (KLZ_WT21)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		
	21:54	134	21:23 (EVE_WT01)	21:07	115	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	47	16:22 (KLZ_WT22)	16:38		
17	05:49		06:34 (SAM_WT06)	06:33		17:33 (KLZ_WT21)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		
	21:53	136	21:22 (EVE_WT01)	21:05	119	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	43	16:20 (KLZ_WT22)	16:38		
18	05:50		06:34 (SAM_WT06)	06:35		17:33 (KLZ_WT21)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		
	21:52	136	21:21 (EVE_WT01)	21:03	121	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39		
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		
	21:51	138	21:20 (EVE_WT01)	21:01	124	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39		
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		
	21:50	139	21:19 (EVE_WT01)	20:59	131	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39		
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		
	21:49	139	21:19 (EVE_WT01)	20:57	132	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40		
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		
	21:48	138	21:17 (EVE_WT01)	20:55	135	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40		
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		
	21:47	135	21:16 (EVE_WT01)	20:52	141	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	28	09:26 (CBR_WT01)	16:41		
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		
	21:45	133	21:14 (EVE_WT01)	20:50	138	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	26	09:26 (CBR_WT01)	16:41		
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		
	21:44	134	21:14 (EVE_WT01)	20:48	137	19:16 (KLZ_WT21)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	24	09:25 (CBR_WT01)	16:42		
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		
	21:43	132	19:26 (KLZ_WT21)	20:46	135	19:15 (KLZ_WT21)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	22	09:24 (CBR_WT01)	16:43		
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		
	21:41	132	19:26 (KLZ_WT21)	20:44	134	19:14 (KLZ_WT21)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	20	09:24 (CBR_WT01)	16:43		
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		
	21:40	130	19:26 (KLZ_WT21)	20:42	130	19:13 (KLZ_WT21)	19:32	8	08:12 (SAM_WT04)	17:28	12	16:19 (KLZ_WT22)	16:44	17	09:23 (CBR_WT01)	16:44		
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31		16:07 (KLZ_WT22)	08:23		09:07 (CBR_WT01)	08:49		
	21:38	130	19:26 (KLZ_WT21)	20:40	129	19:11 (KLZ_WT21)	19:30	6	08:12 (SAM_WT04)	17:26	15	16:22 (KLZ_WT22)	16:43	14	09:21 (CBR_WT01)	16:45		
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		
	21:37	130	19:26 (KLZ_WT21)	20:38	127	19:10 (KLZ_WT21)	19:28	2	08:09 (SAM_WT04)	17:25	29	16:23 (KLZ_WT22)	16:43	10	09:20 (CBR_WT01)	16:46		
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		
	21:35	130	19:27 (KLZ_WT21)	20:35	125	19:08 (KLZ_WT21)				17:23	38	16:25 (KLZ_WT22)				16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case	3863			3890			1432			329			1246			4		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,64			0,63			0,63			0,59			0,59			0,53		
Total reduction	0,28			0,29			0,27			0,21			0,15			0,12		
Total, real	1082			1117			381			69			191			0		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January		February			March			April			May			June		
1	08:49		08:24			07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48		17:35			18:25	121	17:51 (KLZ_WT10)	20:17	195	16:35 (CBR_WT01)	21:06	110	20:38 (EVE_WT02)	21:50	47	20:50 (KLZ_WT21)
2	08:49		08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49		17:36			18:26	125	17:51 (KLZ_WT10)	20:19	194	16:35 (CBR_WT01)	21:08	106	20:40 (EVE_WT02)	21:51	47	20:51 (KLZ_WT21)
3	08:49		08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50		17:38			18:28	127	17:50 (KLZ_WT10)	20:20	194	16:35 (CBR_WT01)	21:09	102	20:41 (EVE_WT02)	21:53	47	20:50 (KLZ_WT21)
4	08:49		08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51		17:40			18:30	128	17:49 (KLZ_WT10)	20:22	194	16:35 (CBR_WT01)	21:11	96	16:17 (CBR_WT01)	21:54	49	20:50 (KLZ_WT21)
5	08:49		08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52		17:42			18:32	124	17:46 (KLZ_WT10)	20:24	193	16:35 (CBR_WT01)	21:13	102	20:41 (KLZ_WT21)	21:55	49	20:50 (KLZ_WT21)
6	08:49		08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54		17:44			18:33	116	17:32 (KLZ_WT11)	20:25	192	16:34 (CBR_WT01)	21:14	101	20:43 (KLZ_WT21)	21:55	49	20:49 (KLZ_WT21)
7	08:48		08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55		17:45			18:35	115	17:30 (KLZ_WT11)	20:27	191	16:34 (CBR_WT01)	21:16	99	20:46 (KLZ_WT21)	21:56	48	20:49 (KLZ_WT21)
8	08:48		08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56		17:47			18:37	115	18:12 (KLZ_WT22)	20:28	189	16:34 (CBR_WT01)	21:17	95	20:47 (KLZ_WT21)	21:57	48	20:48 (KLZ_WT21)
9	08:47		08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57		17:49			18:38	118	18:13 (KLZ_WT22)	20:30	187	16:34 (CBR_WT01)	21:19	91	20:48 (KLZ_WT21)	21:58	48	20:48 (KLZ_WT21)
10	08:47		08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59		17:51			18:40	124	18:15 (KLZ_WT22)	20:32	185	16:34 (CBR_WT01)	21:20	85	20:49 (KLZ_WT21)	21:59	47	20:48 (KLZ_WT21)
11	08:46		08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00		17:53			18:42	129	18:17 (KLZ_WT22)	20:33	182	16:32 (CBR_WT01)	21:22	79	20:50 (KLZ_WT21)	21:59	47	20:47 (KLZ_WT21)
12	08:46		08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02		17:54			18:44	134	18:18 (KLZ_WT22)	20:35	179	16:32 (CBR_WT01)	21:24	71	20:54 (KLZ_WT13)	22:00	47	20:47 (KLZ_WT21)
13	08:45		08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03		17:56			18:45	136	18:17 (KLZ_WT22)	20:37	175	16:32 (CBR_WT01)	21:25	59	20:56 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
14	08:44		08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:05		17:58			18:47	138	18:17 (KLZ_WT22)	20:38	171	16:31 (CBR_WT01)	21:27	33	20:57 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
15	08:44		08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:06		18:00			18:49	146	18:17 (KLZ_WT22)	20:40	167	16:31 (CBR_WT01)	21:28	31	20:51 (KLZ_WT21)	22:02	46	20:47 (KLZ_WT21)
16	08:43		07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55		20:20 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:08		18:02			18:50	160	18:17 (KLZ_WT22)	20:42	161	16:31 (CBR_WT01)	21:30	32	20:52 (KLZ_WT21)	22:02	47	20:47 (KLZ_WT21)
17	08:42		07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:09		18:03			18:52	166	18:15 (KLZ_WT22)	20:43	155	16:30 (CBR_WT01)	21:31	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
18	08:41		07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:11		18:05			18:54	171	18:13 (KLZ_WT22)	20:45	149	16:30 (CBR_WT01)	21:32	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
19	08:40		07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:12		18:07			18:55	171	18:10 (KLZ_WT22)	20:47	139	16:29 (CBR_WT01)	21:34	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
20	08:39		07:51		17:22 (KLZ_WT11)	06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:14		18:09	6	17:28 (KLZ_WT11)	18:57	169	15:34 (CBR_WT01)	20:48	130	16:29 (CBR_WT01)	21:35	33	20:53 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
21	08:38		07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48		20:19 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:16		18:11	40	17:31 (KLZ_WT11)	18:59	173	15:34 (CBR_WT01)	20:50	129	16:28 (CBR_WT01)	21:37	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
22	08:37		07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:17		18:12	54	17:33 (KLZ_WT11)	19:00	177	15:34 (CBR_WT01)	20:51	131	16:27 (CBR_WT01)	21:38	33	20:52 (KLZ_WT21)	22:04	45	20:48 (KLZ_WT21)
23	08:36		07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:19		18:14	72	17:46 (KLZ_WT10)	19:02	180	15:35 (CBR_WT01)	20:53	131	16:27 (CBR_WT01)	21:39	33	20:52 (KLZ_WT21)	22:05	45	20:48 (KLZ_WT21)
24	08:35		07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21		18:16	88	17:50 (KLZ_WT08)	19:04	183	15:34 (CBR_WT01)	20:55	130	16:26 (CBR_WT01)	21:41	34	21:10 (EVE_WT01)	22:05	46	20:48 (KLZ_WT21)
25	08:33		07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22		18:18	99	17:52 (KLZ_WT08)	19:05	186	15:35 (CBR_WT01)	20:56	129	16:25 (CBR_WT01)	21:42	35	21:11 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
26	08:32		07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24		18:19	108	17:54 (KLZ_WT08)	19:07	188	15:35 (CBR_WT01)	20:58	126	16:24 (CBR_WT01)	21:43	39	21:12 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
27	08:31		07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26		18:21	116	17:55 (KLZ_WT08)	19:09	190	15:36 (CBR_WT01)	21:00	123	16:23 (CBR_WT01)	21:45	40	21:13 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
28	08:30		07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28		18:23	120	17:54 (KLZ_WT08)	19:10	191	15:35 (CBR_WT01)	21:01	119	16:22 (CBR_WT01)	21:46	42	20:51 (KLZ_WT21)	22:05	47	20:50 (KLZ_WT21)
29	08:28					07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29					20:12	191	16:35 (CBR_WT01)	21:03	116	16:22 (CBR_WT01)	21:47	44	20:51 (KLZ_WT21)	22:05	46	20:50 (KLZ_WT21)
30	08:27					07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31					20:14	194	16:35 (CBR_WT01)	21:05	112	16:21 (CBR_WT01)	21:48	44	20:51 (KLZ_WT21)	22:04	47	20:51 (KLZ_WT21)
31	08:25					07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33					20:15	195	16:36 (CBR_WT01)				21:49	46	20:51 (KLZ_WT21)			
Potential sun hours	262		279			367			415			482			495		
Total, worst case				703			4781			4768			1847			1401	
Sun reduction				0,30			0,38			0,46			0,46			0,44	
Oper. time red.				0,98			0,98			0,98			0,98			0,98	
Wind dir. red.				0,71			0,70			0,70			0,64			0,67	
Total reduction				0,21			0,26			0,32			0,29			0,29	
Total, real				146			1243			1507			530			403	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 10 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34		06:04 (SAM_WT08)	06:09	07:09 (SAM_WT04)	06:57	08:19 (SAM_WT05)	07:44	14:12 (CBR_WT01)	07:36	08:26
	22:04	47	20:52 (KLZ_WT21)	21:33 74	21:00 (KLZ_WT21)	20:33 182	16:32 (CBR_WT01)	19:25 135	18:57 (KLZ_WT22)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10	07:07 (SAM_WT04)	06:59	08:18 (SAM_WT05)	07:46	14:13 (CBR_WT01)	07:38	08:27
	22:04	48	20:52 (KLZ_WT21)	21:32 82	20:59 (KLZ_WT21)	20:31 184	16:31 (CBR_WT01)	19:23 132	18:56 (KLZ_WT22)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12	07:07 (SAM_WT04)	07:00	08:17 (SAM_WT05)	07:48	14:14 (CBR_WT01)	07:40	08:29
	22:03	48	20:53 (KLZ_WT21)	21:30 87	20:59 (KLZ_WT21)	20:29 187	16:32 (CBR_WT01)	19:21 127	18:54 (KLZ_WT22)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13	07:05 (SAM_WT04)	07:02	08:16 (SAM_WT05)	07:49	14:15 (CBR_WT01)	07:42	08:30
	22:03	48	20:54 (KLZ_WT21)	21:29 93	20:57 (KLZ_WT21)	20:27 189	16:31 (CBR_WT01)	19:19 122	18:52 (KLZ_WT22)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15	07:05 (SAM_WT04)	07:03	08:15 (SAM_WT05)	07:51	14:16 (CBR_WT01)	07:43	08:31
	22:03	48	20:54 (KLZ_WT21)	21:27 97	20:57 (KLZ_WT21)	20:24 191	16:31 (CBR_WT01)	19:16 115	18:50 (KLZ_WT22)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16	07:04 (SAM_WT04)	07:05	08:14 (SAM_WT05)	07:52	14:17 (CBR_WT01)	07:45	08:33
	22:02	48	20:55 (KLZ_WT21)	21:25 100	20:55 (KLZ_WT21)	20:22 192	16:30 (CBR_WT01)	19:14 114	18:05 (KLZ_WT11)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18	07:04 (SAM_WT04)	07:06	08:14 (SAM_WT05)	07:54	14:18 (CBR_WT01)	07:47	08:34
	22:02	48	20:56 (KLZ_WT21)	21:23 102	20:53 (KLZ_WT21)	20:20 193	16:30 (CBR_WT01)	19:12 116	18:07 (KLZ_WT11)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20	07:03 (SAM_WT04)	07:08	08:13 (SAM_WT05)	07:56	14:20 (CBR_WT01)	07:49	08:35
	22:01	48	20:57 (KLZ_WT21)	21:22 102	20:50 (KLZ_WT21)	20:18 194	16:29 (CBR_WT01)	19:10 119	18:20 (KLZ_WT10)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21	07:02 (SAM_WT04)	07:10	08:13 (SAM_WT05)	07:57	14:20 (CBR_WT01)	07:50	08:36
	22:00	48	20:57 (KLZ_WT21)	21:20 98	20:51 (EVE_WT02)	20:15 194	16:29 (CBR_WT01)	19:08 127	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23	07:02 (SAM_WT04)	07:11	08:12 (SAM_WT05)	07:59	14:22 (CBR_WT01)	07:52	08:37
	22:00	48	20:58 (KLZ_WT21)	21:18 103	20:50 (EVE_WT02)	20:13 195	16:28 (CBR_WT01)	19:05 128	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24	07:01 (SAM_WT04)	07:13	08:12 (SAM_WT05)	08:01	14:24 (CBR_WT01)	07:54	08:38
	21:59	47	20:59 (KLZ_WT21)	21:16 108	20:48 (EVE_WT02)	20:11 195	16:28 (CBR_WT01)	19:03 126	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26	07:02 (SAM_WT04)	07:14	08:11 (SAM_WT05)	08:02	14:25 (CBR_WT01)	07:56	08:39
	21:58	46	20:59 (KLZ_WT21)	21:14 110	16:29 (CBR_WT01)	20:09 195	16:27 (CBR_WT01)	19:01 123	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27	07:01 (SAM_WT04)	07:16	08:12 (SAM_WT05)	08:04	14:27 (CBR_WT01)	07:57	08:40
	21:57	46	21:00 (KLZ_WT21)	21:12 115	16:29 (CBR_WT01)	20:06 193	16:27 (CBR_WT01)	18:59 120	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29	07:02 (SAM_WT04)	07:17	08:11 (SAM_WT05)	08:06	14:29 (CBR_WT01)	07:59	08:41
	21:56	44	21:00 (KLZ_WT21)	21:11 118	16:30 (CBR_WT01)	20:04 193	16:26 (CBR_WT01)	18:57 119	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30	07:01 (SAM_WT04)	07:19	08:11 (SAM_WT05)	08:07	14:32 (CBR_WT01)	08:01	08:42
	21:55	42	21:00 (KLZ_WT21)	21:09 122	16:30 (CBR_WT01)	20:02 192	16:25 (CBR_WT01)	18:55 112	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32	07:02 (SAM_WT04)	07:21	08:11 (SAM_WT05)	08:09	14:33 (CBR_WT01)	08:02	08:43
	21:54	42	21:01 (KLZ_WT21)	21:07 124	16:31 (CBR_WT01)	19:59 190	16:24 (CBR_WT01)	18:52 106	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33	07:02 (SAM_WT04)	07:22	08:12 (SAM_WT05)	08:11	14:36 (CBR_WT01)	08:04	08:44
	21:53	40	21:22 (EVE_WT01)	21:05 127	16:31 (CBR_WT01)	19:57 188	16:24 (CBR_WT01)	18:50 95	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35	07:03 (SAM_WT04)	07:24	08:11 (SAM_WT05)	08:12	14:40 (CBR_WT01)	08:06	08:44
	21:52	36	21:21 (EVE_WT01)	21:03 129	16:32 (CBR_WT01)	19:55 186	16:22 (CBR_WT01)	18:48 81	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37	07:04 (SAM_WT04)	07:25	08:12 (SAM_WT05)	08:14	14:43 (CBR_WT01)	08:07	08:45
	21:51	35	21:20 (EVE_WT01)	21:01 130	16:32 (CBR_WT01)	19:53 184	16:22 (CBR_WT01)	18:46 64	18:06 (KLZ_WT11)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38	07:05 (SAM_WT04)	07:27	08:13 (SAM_WT05)	08:16	14:47 (CBR_WT01)	08:09	08:46
	21:50	34	21:19 (EVE_WT01)	20:59 131	16:32 (CBR_WT01)	19:50 182	16:22 (CBR_WT01)	18:44 51	18:03 (KLZ_WT11)	16:52	16:39
21	05:54		20:30 (KLZ_WT21)	06:40	07:06 (SAM_WT04)	07:28	08:14 (SAM_WT05)	08:17	14:54 (CBR_WT01)	08:11	08:46
	21:49	32	21:02 (KLZ_WT21)	20:57 130	16:32 (CBR_WT01)	19:48 177	16:20 (CBR_WT01)	18:42 33	18:01 (KLZ_WT11)	16:51	16:40
22	05:55		20:30 (KLZ_WT21)	06:41	07:09 (SAM_WT04)	07:30	08:15 (SAM_WT05)	08:19	17:54 (KLZ_WT11)	08:12	08:47
	21:48	32	21:02 (KLZ_WT21)	20:55 129	16:33 (CBR_WT01)	19:46 175	16:20 (CBR_WT01)	18:40 3	17:57 (KLZ_WT11)	16:50	16:40
23	05:56		20:29 (KLZ_WT21)	06:43	08:39 (SAM_WT05)	07:32	08:16 (SAM_WT05)	08:21		08:14	08:47
	21:46	33	21:02 (KLZ_WT21)	20:52 128	16:32 (CBR_WT01)	19:43 170	16:18 (CBR_WT01)	18:38		16:49	16:41
24	05:58		20:29 (KLZ_WT21)	06:44	08:35 (SAM_WT05)	07:33	08:17 (SAM_WT05)	08:23		08:15	08:48
	21:45	33	21:02 (KLZ_WT21)	20:50 141	16:33 (CBR_WT01)	19:41 167	18:52 (KLZ_WT22)	18:36		16:48	16:41
25	05:59		20:30 (KLZ_WT21)	06:46	08:31 (SAM_WT05)	07:35	08:18 (SAM_WT05)	07:24		08:17	08:48
	21:44	33	21:03 (KLZ_WT21)	20:48 149	16:32 (CBR_WT01)	19:39 170	18:55 (KLZ_WT22)	17:34		16:47	16:42
26	06:00		20:30 (KLZ_WT21)	06:48	08:29 (SAM_WT05)	07:36	08:21 (SAM_WT05)	07:26		08:19	08:49
	21:42	32	21:02 (KLZ_WT21)	20:46 156	16:33 (CBR_WT01)	19:37 168	18:57 (KLZ_WT22)	17:32		16:46	16:43
27	06:02		20:29 (KLZ_WT21)	06:49	08:26 (SAM_WT05)	07:38	08:24 (SAM_WT05)	07:28		08:20	08:49
	21:41	33	21:02 (KLZ_WT21)	20:44 162	16:32 (CBR_WT01)	19:34 162	18:58 (KLZ_WT22)	17:30		16:45	16:43
28	06:03		20:30 (KLZ_WT21)	06:51	08:25 (SAM_WT05)	07:40	08:27 (SAM_WT05)	07:29		08:22	08:49
	21:40	32	21:02 (KLZ_WT21)	20:42 167	16:33 (CBR_WT01)	19:32 154	18:58 (KLZ_WT22)	17:28		16:44	16:44
29	06:05		20:30 (KLZ_WT21)	06:52	08:23 (SAM_WT05)	07:41	14:11 (CBR_WT01)	07:31		08:23	08:49
	21:38	33	21:08 (KLZ_WT13)	20:40 171	16:32 (CBR_WT01)	19:30 139	18:58 (KLZ_WT22)	17:26		16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54	08:22 (SAM_WT05)	07:43	14:11 (CBR_WT01)	07:33		08:24	08:49
	21:37	47	21:07 (KLZ_WT13)	20:38 175	16:33 (CBR_WT01)	19:28 137	18:57 (KLZ_WT22)	17:25		16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55	08:20 (SAM_WT05)			07:35			08:49
	21:35	64	21:06 (KLZ_WT13)	20:35 179	16:32 (CBR_WT01)			17:23			16:47
Potential sun hours	498			451		380		333		269	248
Total, worst case		1295		3839		5418		2268			
Sun reduction		0,45		0,47		0,43		0,36			
Oper. time red.		0,98		0,98		0,98		0,98			
Wind dir. red.		0,61		0,70		0,69		0,72			
Total reduction		0,27		0,32		0,29		0,25			
Total, real		348		1223		1588		575			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:49			08:24			07:32			07:23		19:33 (CBR_WT01)	06:20		19:41 (SAM_WT05)	05:36		20:49 (KLZ_WT23)
	16:48			17:34			18:25			20:17	18	19:51 (CBR_WT01)	21:06	20	20:01 (SAM_WT05)	21:50	22	21:19 (SAM_WT07)
2	08:49			08:22			07:30			07:21		19:32 (CBR_WT01)	06:18		19:42 (SAM_WT05)	05:35		20:50 (KLZ_WT23)
	16:49			17:36			18:26			20:18	20	19:52 (CBR_WT01)	21:08	17	19:59 (SAM_WT05)	21:51	21	21:19 (SAM_WT07)
3	08:49			08:21			07:28			07:19		19:31 (CBR_WT01)	06:16		19:44 (SAM_WT05)	05:35		20:51 (KLZ_WT23)
	16:50			17:38			18:28			20:20	21	19:52 (CBR_WT01)	21:09	12	19:56 (SAM_WT05)	21:52	22	21:21 (SAM_WT07)
4	08:49			08:19			07:26			07:16		19:31 (CBR_WT01)	06:14			05:34		20:52 (KLZ_WT23)
	16:51			17:40			18:30			20:22	22	19:53 (CBR_WT01)	21:11			21:53	21	21:21 (SAM_WT07)
5	08:49			08:18		17:12 (ALB_WT01)	07:23			07:14		19:30 (CBR_WT01)	06:13			05:33		20:54 (KLZ_WT23)
	16:52			17:42	1	17:13 (ALB_WT01)	18:32			20:23	22	19:52 (CBR_WT01)	21:12			21:54	20	21:23 (SAM_WT07)
6	08:48			08:16		17:12 (ALB_WT01)	07:21			07:12		19:30 (CBR_WT01)	06:11			05:33		21:07 (SAM_WT07)
	16:54			17:43	3	17:15 (ALB_WT01)	18:33			20:25	21	19:51 (CBR_WT01)	21:14			21:55	16	21:23 (SAM_WT07)
7	08:48			08:14		17:13 (ALB_WT01)	07:19			07:10		19:30 (CBR_WT01)	06:09			05:32		21:07 (SAM_WT07)
	16:55			17:45	4	17:17 (ALB_WT01)	18:35			20:27	21	19:51 (CBR_WT01)	21:16			21:56	17	21:24 (SAM_WT07)
8	08:48			08:13			07:17			07:08		19:31 (CBR_WT01)	06:07			05:32		21:06 (SAM_WT07)
	16:56			17:47			18:37			20:28	19	19:50 (CBR_WT01)	21:17			21:57	18	21:24 (SAM_WT07)
9	08:47			08:11			07:15			07:05		19:32 (CBR_WT01)	06:06			05:31		21:07 (SAM_WT07)
	16:57			17:49			18:38			20:30	25	19:59 (SAM_WT05)	21:19			21:58	19	21:26 (SAM_WT07)
10	08:47			08:09			07:13			07:03		19:33 (CBR_WT01)	06:04			05:31		21:07 (SAM_WT07)
	16:59			17:51			18:40			20:32	30	20:03 (SAM_WT05)	21:20			21:59	20	21:27 (SAM_WT07)
11	08:46			08:07			07:10			07:01		19:34 (CBR_WT01)	06:02			05:30		21:06 (SAM_WT07)
	17:00			17:53			18:42			20:33	30	20:04 (SAM_WT05)	21:22			21:59	21	21:27 (SAM_WT07)
12	08:46		16:27 (RHR_WT01)	08:06			07:08			06:59		19:41 (SAM_WT05)	06:01			05:30		21:06 (SAM_WT07)
	17:02	1	16:28 (RHR_WT01)	17:54			18:43			20:35	25	20:06 (SAM_WT05)	21:23			22:00	21	21:27 (SAM_WT07)
13	08:45		16:26 (RHR_WT01)	08:04			07:06			06:57		19:40 (SAM_WT05)	05:59		20:50 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:03	4	16:30 (RHR_WT01)	17:56			18:45			20:37	27	20:07 (SAM_WT05)	21:25	6	20:56 (KLZ_WT23)	22:01	21	21:28 (SAM_WT07)
14	08:44		16:28 (RHR_WT01)	08:02			07:04			06:54		19:39 (SAM_WT05)	05:58		20:48 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:04	4	16:32 (RHR_WT01)	17:58			18:47			20:38	29	20:08 (SAM_WT05)	21:26	9	20:57 (KLZ_WT23)	22:01	22	21:29 (SAM_WT07)
15	08:44		16:28 (RHR_WT01)	08:00			07:01			06:52		19:38 (SAM_WT05)	05:56		20:47 (KLZ_WT23)	05:30		21:07 (SAM_WT07)
	17:06	6	16:34 (RHR_WT01)	18:00			18:49			20:40	31	20:09 (SAM_WT05)	21:28	12	20:59 (KLZ_WT23)	22:02	22	21:29 (SAM_WT07)
16	08:43		16:28 (RHR_WT01)	07:58		17:32 (MXS_WT01)	06:59			06:50		19:37 (SAM_WT05)	05:55		20:46 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:08	8	16:36 (RHR_WT01)	18:02	2	17:34 (MXS_WT01)	18:50			20:42	32	20:09 (SAM_WT05)	21:29	13	20:59 (KLZ_WT23)	22:02	23	21:30 (SAM_WT07)
17	08:42		16:28 (RHR_WT01)	07:56		17:32 (MXS_WT01)	06:57			06:48		19:36 (SAM_WT05)	05:53		20:45 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:09	9	16:37 (RHR_WT01)	18:03	4	17:36 (MXS_WT01)	18:52			20:43	33	20:09 (SAM_WT05)	21:31	16	21:01 (KLZ_WT23)	22:03	23	21:30 (SAM_WT07)
18	08:41		16:29 (RHR_WT01)	07:54		17:33 (MXS_WT01)	06:55			06:46		19:36 (SAM_WT05)	05:52		20:45 (KLZ_WT23)	05:29		21:07 (SAM_WT07)
	17:11	10	16:39 (RHR_WT01)	18:05	5	17:38 (MXS_WT01)	18:54			20:45	34	20:10 (SAM_WT05)	21:32	17	21:02 (KLZ_WT23)	22:03	23	21:30 (SAM_WT07)
19	08:40		16:30 (RHR_WT01)	07:52		17:34 (MXS_WT01)	06:52			06:44		19:35 (SAM_WT05)	05:51		20:45 (KLZ_WT23)	05:29		21:08 (SAM_WT07)
	17:12	11	16:41 (RHR_WT01)	18:07	6	17:40 (MXS_WT01)	18:55			20:46	37	20:20 (KLZ_WT21)	21:34	18	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
20	08:39		16:29 (RHR_WT01)	07:50			06:50			06:42		19:35 (SAM_WT05)	05:49		20:44 (KLZ_WT23)	05:29		21:08 (SAM_WT07)
	17:14	13	16:42 (RHR_WT01)	18:09			18:57			20:48	40	20:22 (KLZ_WT21)	21:35	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
21	08:38		16:31 (RHR_WT01)	07:48			06:48		18:31 (KLZ_WT22)	06:40		19:35 (SAM_WT05)	05:48		20:44 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:16	13	16:44 (RHR_WT01)	18:10			18:59	2	18:33 (KLZ_WT22)	20:50	41	20:23 (KLZ_WT21)	21:37	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
22	08:37		16:32 (RHR_WT01)	07:46			06:46		18:30 (KLZ_WT22)	06:38		19:35 (SAM_WT05)	05:47		20:44 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:17	12	16:44 (RHR_WT01)	18:12			19:00	5	18:35 (KLZ_WT22)	20:51	43	20:25 (KLZ_WT21)	21:38	19	21:03 (KLZ_WT23)	22:04	22	21:30 (SAM_WT07)
23	08:36		16:33 (RHR_WT01)	07:44			06:43		18:31 (KLZ_WT22)	06:36		19:35 (SAM_WT05)	05:45		20:45 (KLZ_WT23)	05:30		21:09 (SAM_WT07)
	17:19	11	16:44 (RHR_WT01)	18:14			19:02	6	18:37 (KLZ_WT22)	20:53	44	20:26 (KLZ_WT21)	21:39	19	21:04 (KLZ_WT23)	22:05	22	21:31 (SAM_WT07)
24	08:35		16:35 (RHR_WT01)	07:42			06:41		18:30 (KLZ_WT22)	06:34		19:35 (SAM_WT05)	05:44		20:45 (KLZ_WT23)	05:30		21:08 (SAM_WT07)
	17:21	8	16:49 (RHR_WT03)	18:16			19:04	8	18:38 (KLZ_WT22)	20:55	45	20:28 (KLZ_WT21)	21:41	19	21:04 (KLZ_WT23)	22:05	23	21:31 (SAM_WT07)
25	08:33		16:49 (RHR_WT03)	07:40			06:39		18:32 (KLZ_WT22)	06:32		19:35 (SAM_WT05)	05:43		20:45 (KLZ_WT23)	05:31		21:08 (SAM_WT07)
	17:22	3	16:52 (RHR_WT03)	18:18			19:05	8	18:40 (KLZ_WT11)	20:56	44	20:28 (KLZ_WT21)	21:42	18	21:03 (KLZ_WT23)	22:05	23	21:31 (SAM_WT07)
26	08:32		16:50 (RHR_WT03)	07:38			06:37		18:40 (KLZ_WT11)	06:30		19:35 (SAM_WT05)	05:42		20:45 (KLZ_WT23)	05:31		21:09 (SAM_WT07)
	17:24	4	16:54 (RHR_WT03)	18:19			19:07	2	18:42 (KLZ_WT11)	20:58	42	20:27 (KLZ_WT21)	21:43	18	21:03 (KLZ_WT23)	22:05	23	21:32 (SAM_WT07)
27	08:31		16:50 (RHR_WT03)	07:36			06:34			06:28		19:36 (SAM_WT05)	05:41		20:46 (KLZ_WT23)	05:31		21:09 (SAM_WT07)
	17:26	5	16:55 (RHR_WT03)	18:21			19:09			21:00	36	20:25 (KLZ_WT21)	21:44	17	21:03 (KLZ_WT23)	22:05	22	21:31 (SAM_WT07)
28	08:29		16:51 (RHR_WT03)	07:34			06:32			06:26		19:36 (SAM_WT05)	05:40		20:46 (KLZ_WT23)	05:32		21:10 (SAM_WT07)
	17:27	7	16:58 (RHR_WT03)	18:23			19:10			21:01	28	20:04 (SAM_WT05)	21:46	17	21:03 (KLZ_WT23)	22:05	22	21:32 (SAM_WT07)
29	08:28		16:52 (RHR_WT03)				07:30		19:41 (CBR_WT01)	06:24		19:37 (SAM_WT05)	05:39		20:47 (KLZ_WT23)	05:32		21:10 (SAM_WT07)
	17:29	7	16:59 (RHR_WT03)				20:12	5	19:46 (CBR_WT01)	21:03	26	20:03 (SAM_WT05)	21:47	15	21:02 (KLZ_WT23)	22:04	21	21:31 (SAM_WT07)
30	08:27		16:55 (RHR_WT03)				07:28		19:37 (CBR_WT01)	06:22		19:39 (SAM_WT05)	05:38		20:48 (KLZ_WT23)	05:33		21:10 (SAM_WT07)
	17:31	4	16:59 (RHR_WT03)				20:14	12	19:49 (CBR_WT01)	21:04	24	20:03 (SAM_WT05)	21:48	20	21:17 (SAM_WT07)	22:04	22	21:32 (SAM_WT07)
31	08:25						07:25		19:35 (CBR_WT01)				05:37		20:48 (KLZ_WT23)			
	17:33						20:15	15	19:50 (CBR_WT01)				21:49	22	21:18 (SAM_WT07)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		140			25			63			910			362			638	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71			0,69			0,62			0,59			0,56			0,55	
Total reduction		0,17			0,20			0,23			0,27			0,25			0,24	
Total, real		24			5			14			241			90			152	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 11 - Schuitstraat 1, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		21:10 (SAM_WT07)	06:09			06:57		19:33 (CBR_WT01)	07:44			07:36			08:26		
	22:04	21	21:31 (SAM_WT07)	21:33			20:33	30	20:03 (SAM_WT05)	19:25			17:21			16:42		
2	05:34		21:11 (SAM_WT07)	06:10			06:58		19:31 (CBR_WT01)	07:46			07:38			08:27		
	22:04	20	21:31 (SAM_WT07)	21:32			20:31	30	20:01 (SAM_WT05)	19:23			17:19			16:41		
3	05:35		21:12 (SAM_WT07)	06:12			07:00		19:30 (CBR_WT01)	07:47			07:40		16:45 (ALB_WT01)	08:29		
	22:03	19	21:31 (SAM_WT07)	21:30			20:29	25	19:57 (SAM_WT05)	19:21			17:17	2	16:47 (ALB_WT01)	16:41		
4	05:36		21:12 (SAM_WT07)	06:13			07:02		19:28 (CBR_WT01)	07:49			07:42		16:43 (ALB_WT01)	08:30		
	22:03	19	21:31 (SAM_WT07)	21:28			20:26	19	19:47 (CBR_WT01)	19:18			17:16	3	16:46 (ALB_WT01)	16:40		
5	05:37		21:12 (SAM_WT07)	06:15			07:03		19:27 (CBR_WT01)	07:51			07:43		16:42 (ALB_WT01)	08:31		
	22:02	18	21:30 (SAM_WT07)	21:27			20:24	21	19:48 (CBR_WT01)	19:16			17:14	2	16:44 (ALB_WT01)	16:40		
6	05:37		21:13 (SAM_WT07)	06:16			07:05		19:26 (CBR_WT01)	07:52			07:45		16:42 (ALB_WT01)	08:32		
	22:02	17	21:30 (SAM_WT07)	21:25			20:22	21	19:47 (CBR_WT01)	19:14			17:12	1	16:43 (ALB_WT01)	16:39		
7	05:38		21:14 (SAM_WT07)	06:18			07:06		19:26 (CBR_WT01)	07:54			07:47			08:34		
	22:01	15	21:29 (SAM_WT07)	21:23			20:20	22	19:48 (CBR_WT01)	19:12			17:10			16:39		
8	05:39		21:00 (KLZ_WT23)	06:19			07:08		19:25 (CBR_WT01)	07:56			07:49			08:35		
	22:01	21	21:29 (SAM_WT07)	21:22			20:17	22	19:47 (CBR_WT01)	19:10			17:09			16:39		
9	05:40		20:59 (KLZ_WT23)	06:21		19:57 (SAM_WT05)	07:09		19:26 (CBR_WT01)	07:57			07:50			08:36		
	22:00	21	21:28 (SAM_WT07)	21:20	4	20:01 (SAM_WT05)	20:15	21	19:47 (CBR_WT01)	19:07			17:07			16:38		
10	05:41		20:58 (KLZ_WT23)	06:23		19:53 (SAM_WT05)	07:11		19:25 (CBR_WT01)	07:59			07:52			08:37		
	21:59	22	21:28 (SAM_WT07)	21:18	13	20:06 (SAM_WT05)	20:13	20	19:45 (CBR_WT01)	19:05			17:06			16:38		
11	05:42		20:58 (KLZ_WT23)	06:24		19:50 (SAM_WT05)	07:13		19:26 (CBR_WT01)	08:01			07:54			08:38		
	21:59	21	21:27 (SAM_WT07)	21:16	18	20:08 (SAM_WT05)	20:11	18	19:44 (CBR_WT01)	19:03			17:04			16:38		
12	05:43		20:57 (KLZ_WT23)	06:26		19:49 (SAM_WT05)	07:14		19:26 (CBR_WT01)	08:02			07:55		16:26 (RHR_WT03)	08:39		
	21:58	22	21:27 (SAM_WT07)	21:14	21	20:10 (SAM_WT05)	20:08	16	19:42 (CBR_WT01)	19:01			17:03	4	16:30 (RHR_WT03)	16:38		
13	05:44		20:57 (KLZ_WT23)	06:27		19:46 (SAM_WT05)	07:16		19:28 (CBR_WT01)	08:04			07:57		16:24 (RHR_WT03)	08:40		
	21:57	20	21:26 (SAM_WT07)	21:12	24	20:10 (SAM_WT05)	20:06	12	19:40 (CBR_WT01)	18:59			17:01	7	16:31 (RHR_WT03)	16:38		
14	05:45		20:56 (KLZ_WT23)	06:29		19:46 (SAM_WT05)	07:17		19:30 (CBR_WT01)	08:06			07:59		16:23 (RHR_WT03)	08:41		
	21:56	17	21:25 (SAM_WT07)	21:10	26	20:12 (SAM_WT05)	20:04	7	19:37 (CBR_WT01)	18:57			17:00	6	16:29 (RHR_WT03)	16:38		
15	05:46		20:56 (KLZ_WT23)	06:30		19:44 (SAM_WT05)	07:19			08:07			08:01		16:23 (RHR_WT03)	08:42		
	21:55	16	21:12 (KLZ_WT23)	21:08	28	20:12 (SAM_WT05)	20:02			18:54			16:58	5	16:28 (RHR_WT03)	16:38		
16	05:47		20:55 (KLZ_WT23)	06:32		19:43 (SAM_WT05)	07:20			08:09			08:02		16:23 (RHR_WT03)	08:43		
	21:54	17	21:12 (KLZ_WT23)	21:07	37	20:33 (KLZ_WT21)	19:59			18:52			16:57	4	16:27 (RHR_WT03)	16:38		
17	05:49		20:55 (KLZ_WT23)	06:33		19:42 (SAM_WT05)	07:22		19:28 (KLZ_WT11)	08:11			08:04		16:22 (RHR_WT03)	08:44		
	21:53	18	21:13 (KLZ_WT23)	21:05	41	20:34 (KLZ_WT21)	19:57	3	19:31 (KLZ_WT11)	18:50			16:56	2	16:24 (RHR_WT03)	16:38		
18	05:50		20:55 (KLZ_WT23)	06:35		19:42 (SAM_WT05)	07:24		19:20 (KLZ_WT22)	08:12			08:06		16:09 (RHR_WT01)	08:44		15:52 (RHR_WT02)
	21:52	18	21:13 (KLZ_WT23)	21:03	44	20:35 (KLZ_WT21)	19:55	7	19:28 (KLZ_WT11)	18:48			16:54	8	16:23 (RHR_WT03)	16:39	2	15:54 (RHR_WT02)
19	05:51		20:54 (KLZ_WT23)	06:37		19:40 (SAM_WT05)	07:25		19:18 (KLZ_WT22)	08:14			08:07		16:07 (RHR_WT01)	08:45		15:53 (RHR_WT02)
	21:51	19	21:13 (KLZ_WT23)	21:01	46	20:33 (KLZ_WT21)	19:53	8	19:26 (KLZ_WT11)	18:46			16:53	11	16:18 (RHR_WT01)	16:39	2	15:55 (RHR_WT02)
20	05:52		20:54 (KLZ_WT23)	06:38		19:40 (SAM_WT05)	07:27		19:16 (KLZ_WT22)	08:16			08:09		16:07 (RHR_WT01)	08:46		15:52 (RHR_WT02)
	21:50	19	21:13 (KLZ_WT23)	20:59	45	20:32 (KLZ_WT21)	19:50	7	19:23 (KLZ_WT22)	18:44			16:52	12	16:19 (RHR_WT01)	16:39	4	15:56 (RHR_WT02)
21	05:54		20:55 (KLZ_WT23)	06:40		19:39 (SAM_WT05)	07:28		19:16 (KLZ_WT22)	08:17			08:11		16:07 (RHR_WT01)	08:46		15:53 (RHR_WT02)
	21:49	19	21:14 (KLZ_WT23)	20:56	44	20:29 (KLZ_WT21)	19:48	5	19:21 (KLZ_WT22)	18:42			16:51	13	16:20 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
22	05:55		20:55 (KLZ_WT23)	06:41		19:39 (SAM_WT05)	07:30		19:16 (KLZ_WT22)	08:19		18:07 (MXS_WT01)	08:12		16:06 (RHR_WT01)	08:47		15:53 (RHR_WT02)
	21:48	19	21:14 (KLZ_WT23)	20:54	42	20:28 (KLZ_WT21)	19:46	4	19:20 (KLZ_WT22)	18:40	3	18:10 (MXS_WT01)	16:50	12	16:18 (RHR_WT01)	16:40	4	15:57 (RHR_WT02)
23	05:56		20:55 (KLZ_WT23)	06:43		19:39 (SAM_WT05)	07:31		19:16 (KLZ_WT22)	08:21		18:04 (MXS_WT01)	08:14		16:06 (RHR_WT01)	08:47		15:54 (RHR_WT02)
	21:46	19	21:14 (KLZ_WT23)	20:52	39	20:25 (KLZ_WT21)	19:43	1	19:17 (KLZ_WT22)	18:38	6	18:10 (MXS_WT01)	16:49	11	16:17 (RHR_WT01)	16:41	4	15:58 (RHR_WT02)
24	05:58		20:55 (KLZ_WT23)	06:44		19:39 (SAM_WT05)	07:33			08:22		18:03 (MXS_WT01)	08:15		16:06 (RHR_WT01)	08:48		15:54 (RHR_WT02)
	21:45	18	21:13 (KLZ_WT23)	20:50	36	20:24 (KLZ_WT21)	19:41			18:36	5	18:08 (MXS_WT01)	16:48	10	16:16 (RHR_WT01)	16:41	3	15:57 (RHR_WT02)
25	05:59		20:56 (KLZ_WT23)	06:46		19:38 (SAM_WT05)	07:35			07:24		17:02 (MXS_WT01)	08:17		16:06 (RHR_WT01)	08:48		15:55 (RHR_WT02)
	21:44	18	21:14 (KLZ_WT23)	20:48	34	20:12 (SAM_WT05)	19:39			17:34	3	17:05 (MXS_WT01)	16:47	9	16:15 (RHR_WT01)	16:42	2	15:57 (RHR_WT02)
26	06:00		20:56 (KLZ_WT23)	06:47		19:39 (SAM_WT05)	07:36			07:26		17:01 (MXS_WT01)	08:18		16:06 (RHR_WT01)	08:49		
	21:42	16	21:12 (KLZ_WT23)	20:46	33	20:12 (SAM_WT05)	19:37			17:32	2	17:03 (MXS_WT01)	16:46	8	16:14 (RHR_WT01)	16:43		
27	06:02		20:56 (KLZ_WT23)	06:49		19:39 (SAM_WT05)	07:38			07:28			08:20		16:07 (RHR_WT01)	08:49		
	21:41	15	21:11 (KLZ_WT23)	20:44	32	20:11 (SAM_WT05)	19:34			17:30			16:45	6	16:13 (RHR_WT01)	16:43		
28	06:03		20:57 (KLZ_WT23)	06:51		19:39 (SAM_WT05)	07:39			07:29			08:21		16:07 (RHR_WT01)	08:49		
	21:39	13	21:10 (KLZ_WT23)	20:42	30	20:09 (SAM_WT05)	19:32			17:28			16:44	5	16:12 (RHR_WT01)	16:44		
29	06:05		20:58 (KLZ_WT23)	06:52		19:40 (SAM_WT05)	07:41			07:31			08:23		16:08 (RHR_WT01)	08:49		
	21:38	10	21:08 (KLZ_WT23)	20:40	29	20:09 (SAM_WT05)	19:30			17:26			16:43	3	16:11 (RHR_WT01)	16:45		
30	06:06		20:59 (KLZ_WT23)	06:54		19:40 (SAM_WT05)	07:43			07:33			08:24		16:09 (RHR_WT01)	08:49		
	21:37	8	21:07 (KLZ_WT23)	20:37	27	20:07 (SAM_WT05)	19:27			17:24			16:43	2	16:11 (RHR_WT01)	16:46		
31	06:07		21:01 (KLZ_WT23)	06:55		19:38 (CBR_WT01)				07:35						08:49		
	21:35	5	21:06 (KLZ_WT23)	20:35	26	20:05 (SAM_WT05)				17:23						16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case	540			719			319			19			146			25		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,55			0,58			0,61			0,68			0,71			0,72		
Total reduction	0,24			0,26			0,26			0,24			0,19			0,16		
Total, real	131			190			82			5			27			4		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21		19:39 (KLZ_WT22)	06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19	7	19:46 (KLZ_WT22)	21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21			07:28			07:19		19:36 (KLZ_WT22)	06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38			18:28			20:20	13	19:49 (KLZ_WT22)	21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19			07:26			07:17		19:34 (KLZ_WT22)	06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40			18:30			20:22	17	19:51 (KLZ_WT22)	21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18			07:24			07:14		19:32 (KLZ_WT22)	06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42			18:32			20:24	21	19:53 (KLZ_WT22)	21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16			07:21			07:12		19:30 (KLZ_WT22)	06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44			18:33			20:25	23	19:53 (KLZ_WT22)	21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14			07:19			07:10		19:29 (KLZ_WT22)	06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45			18:35			20:27	24	19:53 (KLZ_WT22)	21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		19:28 (KLZ_WT22)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	28	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		19:28 (KLZ_WT22)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	30	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		19:28 (KLZ_WT22)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	30	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		19:28 (KLZ_WT22)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	31	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		19:27 (KLZ_WT22)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	29	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57		19:27 (KLZ_WT22)	05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37	25	19:52 (KLZ_WT22)	21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55		19:27 (KLZ_WT22)	05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38	24	19:51 (KLZ_WT22)	21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52		19:28 (KLZ_WT22)	05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40	22	19:50 (KLZ_WT22)	21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50		19:29 (KLZ_WT22)	05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42	20	19:49 (KLZ_WT22)	21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48		19:30 (KLZ_WT22)	05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43	18	19:48 (KLZ_WT22)	21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46		19:32 (KLZ_WT22)	05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45	14	19:46 (KLZ_WT22)	21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44		19:35 (KLZ_WT22)	05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47	8	19:43 (KLZ_WT22)	21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	302			7			138			422			763			1138		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,54			0,54			0,63			0,61			0,67			0,58		
Total reduction	0,13			0,16			0,23			0,28			0,30			0,25		
Total, real	39			1			32			116			227			286		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		19:27 (KLZ_WT22)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	32	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		19:26 (KLZ_WT22)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	30	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:26 (KLZ_WT22)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	30	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:25 (KLZ_WT22)	07:49	07:42			08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	28	20:00 (KLZ_WT15)	19:19	17:16			16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03		19:26 (KLZ_WT22)	07:51	07:43			08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24	24	19:50 (KLZ_WT22)	19:16	17:14			16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05		19:26 (KLZ_WT22)	07:52	07:45			08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22	23	19:49 (KLZ_WT22)	19:14	17:12			16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06		19:27 (KLZ_WT22)	07:54	07:47			08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20	21	19:48 (KLZ_WT22)	19:12	17:11			16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08		19:28 (KLZ_WT22)	07:56	07:49			08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18	17	19:45 (KLZ_WT22)	19:10	17:09			16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10		19:30 (KLZ_WT22)	07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15	14	19:44 (KLZ_WT22)	19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11		19:32 (KLZ_WT22)	07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13	8	19:40 (KLZ_WT22)	19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44		19:38 (KLZ_WT22)	07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50	9	19:47 (KLZ_WT22)	19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46		19:35 (KLZ_WT22)	07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48	14	19:49 (KLZ_WT22)	19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48		19:33 (KLZ_WT22)	07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46	18	19:51 (KLZ_WT22)	19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49		19:31 (KLZ_WT22)	07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44	20	19:51 (KLZ_WT22)	19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51		19:30 (KLZ_WT22)	07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42	22	19:52 (KLZ_WT22)	19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52		19:28 (KLZ_WT22)	07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40	24	19:52 (KLZ_WT22)	19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54		19:28 (KLZ_WT22)	07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38	25	19:53 (KLZ_WT22)	19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		19:27 (KLZ_WT22)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	29	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			521			367				312		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,98			0,98			0,98				0,98		
Wind dir. red.		0,62			0,65			0,61				0,54		
Total reduction		0,27			0,30			0,26				0,14		
Total, real		221			155			95				44		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	29	09:28 (RHR_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	63	20:53 (KLZ_WT22)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	29	09:27 (RHR_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	63	20:54 (KLZ_WT22)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	28	09:26 (RHR_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	65	20:55 (KLZ_WT22)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	25	09:25 (RHR_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	68	20:55 (KLZ_WT22)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	17	09:22 (RHR_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	69	20:56 (KLZ_WT22)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	4	08:53 (MVZ_WT02)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	72	20:57 (KLZ_WT22)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	72	20:58 (KLZ_WT22)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	73	20:59 (KLZ_WT22)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	73	20:59 (KLZ_WT22)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	75	20:59 (KLZ_WT22)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	75	21:00 (KLZ_WT22)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	74	21:00 (KLZ_WT22)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	75	21:00 (KLZ_WT22)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	74	21:01 (KLZ_WT22)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	74	21:01 (KLZ_WT22)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	75	21:02 (KLZ_WT22)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	74	21:02 (KLZ_WT22)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	73	21:02 (KLZ_WT22)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	72	21:02 (KLZ_WT22)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	73	21:03 (KLZ_WT22)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	73	21:03 (KLZ_WT22)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	73	21:04 (KLZ_WT22)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	73	21:04 (KLZ_WT22)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	73	21:03 (KLZ_WT22)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	73	21:04 (KLZ_WT22)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	36	20:44 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	42	20:46 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	27	09:30 (RHR_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	48	20:48 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	27	09:29 (RHR_WT01)				20:12			21:03			21:47	51	20:50 (KLZ_WT22)	22:05	74	21:05 (KLZ_WT22)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	27	09:29 (RHR_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	55	20:51 (KLZ_WT22)	22:04	75	21:04 (KLZ_WT22)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	28	09:28 (RHR_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	59	20:52 (KLZ_WT22)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		559			284			328			86			716			2168	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,54			0,55			0,55			0,61			0,65			0,63	
Total reduction		0,13			0,16			0,20			0,28			0,29			0,27	
Total, real		73			46			67			24			206			587	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	74	21:04 (KLZ_WT22)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MXS_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	76	21:04 (KLZ_WT22)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MXS_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	74	21:04 (KLZ_WT22)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MXS_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42			08:30		09:21 (RHR_WT02)
	22:03	73	21:04 (KLZ_WT22)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MXS_WT01)	17:16			16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	71	21:03 (KLZ_WT22)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MXS_WT01)	17:14	5	08:23 (MVZ_WT02)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	72	21:03 (KLZ_WT22)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MXS_WT01)	17:12	18	08:52 (RHR_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	70	21:03 (KLZ_WT22)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MXS_WT01)	17:11	25	08:55 (RHR_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	68	21:03 (KLZ_WT22)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	28	08:57 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	66	21:02 (KLZ_WT22)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	29	08:58 (RHR_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	65	21:02 (KLZ_WT22)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	29	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	61	21:01 (KLZ_WT22)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	28	08:59 (RHR_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	60	21:01 (KLZ_WT22)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	28	09:00 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	58	21:00 (KLZ_WT22)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	26	09:01 (RHR_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	54	20:59 (KLZ_WT22)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	26	09:01 (RHR_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	50	20:58 (KLZ_WT22)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	44	20:56 (KLZ_WT22)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	39	20:54 (KLZ_WT22)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	30	20:51 (KLZ_WT22)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1301			222			109			468			526			582	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,64			0,60			0,55			0,54			0,54	
Total reduction		0,28			0,29			0,25			0,20			0,14			0,12	
Total, real		363			65			28			92			75			69	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:16 (KLZ_WT10)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	40	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:17 (KLZ_WT10)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	40	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:16 (KLZ_WT10)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	41	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:16 (KLZ_WT10)
	16:51	39	10:21 (ALB_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	42	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:17 (KLZ_WT10)
	16:53	35	10:20 (ALB_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	41	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:36 (KLZ_WT11)	05:33		06:17 (KLZ_WT10)
	16:54	33	10:19 (ALB_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	23	07:00 (CBR_WT01)	21:56	40	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:34 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:55	27	10:17 (ALB_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	26	07:00 (CBR_WT01)	21:56	41	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:32 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:56	25	09:51 (RHR_WT03)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	27	06:59 (CBR_WT01)	21:57	42	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:31 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:58	25	09:52 (RHR_WT03)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	28	06:59 (CBR_WT01)	21:58	43	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:59	24	09:51 (RHR_WT03)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	29	06:58 (CBR_WT01)	21:59	43	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	17:00	24	09:51 (RHR_WT03)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	29	06:58 (CBR_WT01)	22:00	42	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	26	09:51 (RHR_WT03)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	29	06:56 (CBR_WT01)	22:00	43	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	26	09:52 (RHR_WT03)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	29	06:56 (CBR_WT01)	22:01	44	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	27	09:52 (RHR_WT03)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	25	06:53 (CBR_WT01)	22:01	43	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	28	09:51 (RHR_WT03)	18:00			18:49			20:40			21:28	20	06:51 (CBR_WT01)	22:02	42	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	28	09:51 (RHR_WT03)	18:02			18:50			20:42			21:30	15	06:40 (KLZ_WT11)	22:03	44	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	27	09:50 (RHR_WT03)	18:04			18:52			20:43			21:31	15	06:39 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	26	09:49 (RHR_WT03)	18:05			18:54			20:45			21:33	11	06:37 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	25	09:48 (RHR_WT03)	18:07			18:55			20:47			21:34	12	06:29 (KLZ_WT10)	22:04	42	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	21	09:46 (RHR_WT03)	18:09			18:57			20:48			21:35	10	06:30 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	16	09:21 (RHR_WT02)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	13	06:32 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	16	09:21 (RHR_WT02)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	18	21:07 (KLZ_WT15)	22:05	43	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:19	16	09:22 (RHR_WT02)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	22	21:09 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	14	09:20 (RHR_WT02)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	26	21:10 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	28	21:11 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	30	21:12 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	33	21:13 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	34	21:14 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	36	21:16 (KLZ_WT15)	22:05	43	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	37	21:17 (KLZ_WT15)	22:04	43	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:16 (KLZ_WT10)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	38	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		685			250			158			316			732			1266	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,54			0,55			0,57			0,62			0,66			0,62	
Total reduction		0,13			0,16			0,21			0,28			0,30			0,27	
Total, real		89			41			33			89			216			341	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:38 (KLZ_WT11)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	43	21:27 (KLZ_WT15)	21:34	29	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	24	09:33 (RHR_WT03)
2	05:35		06:04 (SAM_WT07)	06:11		06:39 (KLZ_WT11)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	43	21:27 (KLZ_WT15)	21:32	29	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	24	09:34 (RHR_WT03)
3	05:35		06:05 (SAM_WT07)	06:12		06:40 (KLZ_WT11)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	41	21:27 (KLZ_WT15)	21:30	29	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	25	09:35 (RHR_WT03)
4	05:36		06:06 (SAM_WT07)	06:14		06:41 (KLZ_WT11)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	42	21:28 (KLZ_WT15)	21:29	28	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
5	05:37		06:07 (SAM_WT07)	06:15		06:43 (KLZ_WT11)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	41	21:28 (KLZ_WT15)	21:27	26	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	25	09:36 (RHR_WT03)
6	05:38		06:23 (KLZ_WT10)	06:17		06:44 (KLZ_WT11)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:25	25	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	32	10:05 (ALB_WT01)
7	05:38		06:24 (KLZ_WT10)	06:18		06:46 (KLZ_WT11)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:24	21	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	35	10:07 (ALB_WT01)
8	05:39		06:24 (KLZ_WT10)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	40	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	38	10:09 (ALB_WT01)
9	05:40		06:24 (KLZ_WT10)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:24 (KLZ_WT10)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:24 (KLZ_WT10)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	39	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:24 (KLZ_WT10)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	40	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:24 (KLZ_WT10)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	39	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:24 (KLZ_WT10)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	37	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:25 (KLZ_WT10)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	35	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:25 (KLZ_WT10)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	33	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:25 (KLZ_WT10)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	32	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	29	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	14	08:54 (RHR_WT02)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	28	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	16	08:56 (RHR_WT02)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	24	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	16	08:56 (RHR_WT02)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	21	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	16	08:57 (RHR_WT02)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	16	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	21	09:22 (RHR_WT03)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	12	06:41 (KLZ_WT10)	20:53			19:44			18:38			16:49	25	09:24 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	11	06:40 (KLZ_WT10)	20:50			19:41			18:36			16:48	26	09:26 (RHR_WT03)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	11	06:46 (KLZ_WT11)	20:48			19:39			17:34			16:47	27	09:28 (RHR_WT03)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	13	06:49 (KLZ_WT11)	20:46			19:37			17:32			16:46	27	09:29 (RHR_WT03)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	16	06:50 (KLZ_WT11)	20:44			19:34			17:30			16:45	27	09:30 (RHR_WT03)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	16	06:51 (KLZ_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	24	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	27	09:32 (RHR_WT03)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	29	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	26	09:33 (RHR_WT03)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	29	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		948			362			263			245			462			1235	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,67			0,61			0,56			0,54			0,54	
Total reduction		0,28			0,31			0,26			0,20			0,14			0,12	
Total, real		265			110			68			49			65			147	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (ATS_WT01)	08:24			07:32		07:59 (ALB_WT01)	07:23			06:20		06:48 (KLZ_WT16)	05:37		06:04 (KLZ_WT21)
	16:48	8	09:40 (ATS_WT01)	17:35			18:25	5	08:04 (ALB_WT01)	20:17			21:06	12	07:00 (KLZ_WT16)	21:51	44	07:07 (KLZ_WT16)
2	08:50		09:33 (ATS_WT01)	08:23			07:30			07:21			06:18		06:45 (KLZ_WT16)	05:36		06:04 (KLZ_WT21)
	16:49	7	09:40 (ATS_WT01)	17:37			18:27			20:19			21:08	18	07:03 (KLZ_WT16)	21:52	44	07:07 (KLZ_WT16)
3	08:49		09:35 (ATS_WT01)	08:21			07:28			07:19			06:17		06:44 (KLZ_WT16)	05:35		06:03 (KLZ_WT21)
	16:50	4	09:39 (ATS_WT01)	17:38			18:28			20:20			21:10	21	07:05 (KLZ_WT16)	21:53	42	07:06 (KLZ_WT16)
4	08:49			08:19			07:26			07:17			06:15		06:42 (KLZ_WT16)	05:34		06:03 (KLZ_WT21)
	16:52			17:40			18:30			20:22			21:11	24	07:06 (KLZ_WT16)	21:54	42	07:07 (KLZ_WT16)
5	08:49			08:18			07:24			07:14			06:13		06:40 (KLZ_WT16)	05:34		06:02 (KLZ_WT21)
	16:53			17:42			18:32			20:24			21:13	27	07:07 (KLZ_WT16)	21:55	41	07:06 (KLZ_WT16)
6	08:49			08:16			07:22		07:44 (RHR_WT01)	07:12			06:11		06:40 (KLZ_WT16)	05:33		06:02 (KLZ_WT21)
	16:54			17:44			18:34	1	07:45 (RHR_WT01)	20:25			21:14	28	07:08 (KLZ_WT16)	21:56	40	07:06 (KLZ_WT16)
7	08:48			08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		06:34 (SAM_WT07)	05:33		06:01 (KLZ_WT21)
	16:55			17:46			18:35	2	07:44 (RHR_WT01)	20:27			21:16	32	07:09 (KLZ_WT16)	21:56	39	07:05 (KLZ_WT16)
8	08:48			08:13			07:17		07:40 (RHR_WT01)	07:08			06:08		06:32 (SAM_WT07)	05:32		06:01 (KLZ_WT21)
	16:56			17:47			18:37	2	07:42 (RHR_WT01)	20:29			21:18	33	07:09 (KLZ_WT16)	21:57	38	07:05 (KLZ_WT16)
9	08:48			08:11			07:15			07:06			06:06		06:37 (KLZ_WT16)	05:32		06:00 (KLZ_WT21)
	16:58			17:49			18:39			20:30			21:19	33	07:10 (KLZ_WT16)	21:58	37	07:04 (KLZ_WT16)
10	08:47			08:09			07:13			07:03			06:04		06:36 (KLZ_WT16)	05:31		06:00 (KLZ_WT21)
	16:59			17:51			18:40			20:32			21:21	34	07:10 (KLZ_WT16)	21:59	37	07:04 (KLZ_WT16)
11	08:46			08:08			07:11			07:01			06:03		06:35 (KLZ_WT22)	05:31		06:00 (KLZ_WT21)
	17:00			17:53			18:42			20:34			21:22	36	07:11 (KLZ_WT16)	22:00	36	07:04 (KLZ_WT16)
12	08:46			08:06			07:08		07:31 (MVN_WT01)	06:59			06:01		06:34 (KLZ_WT22)	05:30		06:00 (KLZ_WT21)
	17:02			17:55			18:44	1	07:32 (MVN_WT01)	20:35			21:24	37	07:11 (KLZ_WT16)	22:00	34	07:03 (KLZ_WT16)
13	08:45			08:04			07:06			06:57			06:00		06:34 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:03			17:56			18:45			20:37			21:25	37	07:11 (KLZ_WT16)	22:01	34	07:02 (KLZ_WT16)
14	08:45			08:02			07:04			06:55			05:58		06:32 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:05			17:58			18:47			20:39			21:27	39	07:11 (KLZ_WT16)	22:02	33	07:02 (KLZ_WT16)
15	08:44			08:00			07:02			06:53			05:57		06:32 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:06			18:00			18:49			20:40			21:28	39	07:11 (KLZ_WT16)	22:02	33	07:02 (KLZ_WT16)
16	08:43			07:58			06:59			06:50		07:13 (KLZ_WT08)	05:55		06:32 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:08			18:02			18:51			20:42	2	07:15 (KLZ_WT08)	21:30	40	07:12 (KLZ_WT16)	22:03	31	07:01 (KLZ_WT16)
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT08)	05:54		06:31 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:09			18:04			18:52			20:43	4	07:15 (KLZ_WT08)	21:31	40	07:11 (KLZ_WT16)	22:03	30	07:01 (KLZ_WT16)
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT08)	05:52		06:31 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:11			18:05			18:54			20:45	5	07:14 (KLZ_WT08)	21:33	40	07:11 (KLZ_WT16)	22:03	31	07:01 (KLZ_WT16)
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT08)	05:51		06:31 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:13			18:07			18:56			20:47	6	07:13 (KLZ_WT08)	21:34	40	07:11 (KLZ_WT16)	22:04	30	07:00 (KLZ_WT16)
20	08:39			07:51			06:50			06:42		07:05 (CBR_WT01)	05:50		06:32 (KLZ_WT22)	05:30		05:59 (KLZ_WT21)
	17:14			18:09			18:57			20:48	6	07:11 (KLZ_WT08)	21:35	40	07:12 (KLZ_WT16)	22:04	29	07:00 (KLZ_WT16)
21	08:38			07:49			06:48			06:40			05:48		06:32 (KLZ_WT22)	05:30		06:00 (KLZ_WT21)
	17:16			18:11			18:59			20:50			21:37	40	07:12 (KLZ_WT16)	22:04	29	07:01 (KLZ_WT16)
22	08:37			07:47			06:46			06:38			05:47		06:31 (KLZ_WT22)	05:30		06:00 (KLZ_WT21)
	17:17			18:13			19:01			20:52			21:38	39	07:10 (KLZ_WT16)	22:05	29	07:01 (KLZ_WT16)
23	08:36			07:45			06:44			06:36			05:46		06:12 (KLZ_WT23)	05:30		06:00 (KLZ_WT21)
	17:19			18:14			19:02			20:53			21:40	41	07:10 (KLZ_WT16)	22:05	29	07:01 (KLZ_WT16)
24	08:35			07:43		08:06 (ALB_WT01)	06:41			06:34			05:45		06:11 (KLZ_WT23)	05:31		06:00 (KLZ_WT21)
	17:21			18:16	2	08:08 (ALB_WT01)	19:04			20:55			21:41	43	07:10 (KLZ_WT16)	22:05	31	07:02 (KLZ_WT16)
25	08:34			07:41		08:04 (ALB_WT01)	06:39			06:32			05:43		06:10 (KLZ_WT23)	05:31		06:01 (KLZ_WT21)
	17:23			18:18	4	08:08 (ALB_WT01)	19:06			20:57			21:42	43	07:10 (KLZ_WT16)	22:05	31	07:03 (KLZ_WT16)
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30			05:42		06:09 (KLZ_WT23)	05:31		06:01 (KLZ_WT21)
	17:24			18:20	6	08:08 (ALB_WT01)	19:07			20:58			21:43	43	07:09 (KLZ_WT16)	22:05	31	07:03 (KLZ_WT16)
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28			05:41		06:08 (KLZ_WT23)	05:32		06:02 (KLZ_WT21)
	17:26			18:21	8	08:08 (ALB_WT01)	19:09			21:00			21:45	45	07:09 (KLZ_WT16)	22:05	31	07:04 (KLZ_WT16)
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26			05:40		06:08 (KLZ_WT21)	05:32		06:02 (KLZ_WT21)
	17:28			18:23	9	08:06 (ALB_WT01)	19:11			21:01			21:46	45	07:10 (KLZ_WT16)	22:05	33	07:05 (KLZ_WT16)
29	08:28						07:30			06:24			05:39		06:07 (KLZ_WT21)	05:33		06:03 (KLZ_WT21)
	17:29						20:12			21:03			21:47	44	07:09 (KLZ_WT16)	22:05	34	07:06 (KLZ_WT16)
30	08:27						07:28			06:22			05:38		06:06 (KLZ_WT21)	05:33		06:03 (KLZ_WT21)
	17:31						20:14			21:05			21:48	44	07:08 (KLZ_WT16)	22:04	35	07:06 (KLZ_WT16)
31	08:26						07:26						05:37		06:05 (KLZ_WT21)			
	17:33						20:15						21:49	45	07:08 (KLZ_WT16)			
Potential sun hours	262			279			367			414			482			494		
Total, worst case		19			29			11			23			1122			1038	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,53			0,55			0,56			0,64			0,68			0,69	
Total reduction		0,13			0,16			0,21			0,29			0,30			0,30	
Total, real		2			5			2			7			340			309	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 15 - Hageland 41, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September	October			November	December		
1	05:34		06:04 (KLZ_WT21)	06:09		06:45 (KLZ_WT16)	06:57	07:45			07:37	08:26		
	22:04	34	07:07 (KLZ_WT16)	21:34	36	07:21 (KLZ_WT16)	20:33	19:26			17:21	16:42		
2	05:35		06:04 (KLZ_WT21)	06:11		06:46 (KLZ_WT16)	06:59	07:46		08:11 (MVN_WT01)	07:38	08:27		
	22:04	36	07:08 (KLZ_WT16)	21:32	35	07:21 (KLZ_WT16)	20:31	19:23	1	08:12 (MVN_WT01)	17:19	16:42		
3	05:35		06:05 (KLZ_WT21)	06:12		06:46 (KLZ_WT16)	07:00	07:48			07:40	08:29		
	22:04	36	07:09 (KLZ_WT16)	21:30	34	07:20 (KLZ_WT16)	20:29	19:21			17:18	16:41		
4	05:36		06:06 (KLZ_WT21)	06:14		06:47 (KLZ_WT16)	07:02	07:49			07:42	08:30		
	22:03	37	07:10 (KLZ_WT16)	21:29	33	07:20 (KLZ_WT16)	20:27	19:19			17:16	16:41		
5	05:37		06:07 (KLZ_WT21)	06:15		06:43 (SAM_WT07)	07:04	07:51			07:44	08:31		
	22:03	37	07:11 (KLZ_WT16)	21:27	32	07:19 (KLZ_WT16)	20:24	19:17			17:14	16:40		
6	05:38		06:07 (KLZ_WT21)	06:17		06:44 (SAM_WT07)	07:05	07:53		08:17 (RHR_WT01)	07:45	08:33		
	22:02	39	07:11 (KLZ_WT16)	21:25	31	07:18 (KLZ_WT16)	20:22	19:14	2	08:19 (RHR_WT01)	17:12	16:40		
7	05:39		06:08 (KLZ_WT21)	06:18		06:49 (KLZ_WT16)	07:07	07:54		08:19 (RHR_WT01)	07:47	08:34		
	22:02	41	07:12 (KLZ_WT16)	21:24	29	07:18 (KLZ_WT16)	20:20	19:12	2	08:21 (RHR_WT01)	17:11	16:39		
8	05:39		06:09 (KLZ_WT21)	06:20		06:50 (KLZ_WT16)	07:08	07:56			07:49	08:35		
	22:01	42	07:13 (KLZ_WT16)	21:22	26	07:16 (KLZ_WT16)	20:18	19:10			17:09	16:39		
9	05:40		06:10 (KLZ_WT21)	06:21		06:52 (KLZ_WT16)	07:10	07:58			07:51	08:36		09:23 (ATS_WT01)
	22:00	43	07:14 (KLZ_WT16)	21:20	23	07:15 (KLZ_WT16)	20:16	19:08			17:08	16:39	4	09:27 (ATS_WT01)
10	05:41		06:11 (KLZ_WT21)	06:23		06:53 (KLZ_WT16)	07:11	07:59			07:52	08:37		09:22 (ATS_WT01)
	22:00	43	07:14 (KLZ_WT16)	21:18	20	07:13 (KLZ_WT16)	20:13	19:06			17:06	16:38	7	09:29 (ATS_WT01)
11	05:42		06:12 (KLZ_WT21)	06:24		06:55 (KLZ_WT16)	07:13	08:01			07:54	08:38		09:22 (ATS_WT01)
	21:59	44	07:15 (KLZ_WT16)	21:16	17	07:12 (KLZ_WT16)	20:11	19:03			17:04	16:38	8	09:30 (ATS_WT01)
12	05:43		06:13 (KLZ_WT21)	06:26		06:58 (KLZ_WT16)	07:14	08:03			07:56	08:39		09:22 (ATS_WT01)
	21:58	44	07:16 (KLZ_WT16)	21:14	10	07:08 (KLZ_WT16)	20:09	19:01			17:03	16:38	9	09:31 (ATS_WT01)
13	05:44		06:14 (KLZ_WT21)	06:27			07:16	08:04		08:32 (ALB_WT01)	07:57	08:40		09:22 (ATS_WT01)
	21:57	45	07:17 (KLZ_WT16)	21:13			20:06	18:59	6	08:38 (ALB_WT01)	17:02	16:38	10	09:32 (ATS_WT01)
14	05:46		06:15 (KLZ_WT21)	06:29			07:18	08:06		08:31 (ALB_WT01)	07:59	08:41		09:22 (ATS_WT01)
	21:56	45	07:17 (KLZ_WT16)	21:11			20:04	18:57	8	08:39 (ALB_WT01)	17:00	16:38	10	09:32 (ATS_WT01)
15	05:47		06:16 (KLZ_WT21)	06:31			07:19	08:07		08:33 (ALB_WT01)	08:01	08:42		09:22 (ATS_WT01)
	21:56	45	07:18 (KLZ_WT16)	21:09			20:02	18:55	7	08:40 (ALB_WT01)	16:59	16:38	11	09:33 (ATS_WT01)
16	05:48		06:17 (KLZ_WT23)	06:32			07:21	08:09		08:35 (ALB_WT01)	08:03	08:43		09:23 (ATS_WT01)
	21:55	44	07:18 (KLZ_WT16)	21:07			20:00	18:53	6	08:41 (ALB_WT01)	16:57	16:38	11	09:34 (ATS_WT01)
17	05:49		06:18 (KLZ_WT23)	06:34			07:22	08:11		08:36 (ALB_WT01)	08:04	08:44		09:23 (ATS_WT01)
	21:54	45	07:19 (KLZ_WT16)	21:05			19:57	18:51	3	08:39 (ALB_WT01)	16:56	16:39	12	09:35 (ATS_WT01)
18	05:50		06:19 (KLZ_WT23)	06:35			07:24	08:13		08:38 (ALB_WT01)	08:06	08:45		09:23 (ATS_WT01)
	21:53	44	07:19 (KLZ_WT16)	21:03			19:55	18:48	1	08:39 (ALB_WT01)	16:55	16:39	12	09:35 (ATS_WT01)
19	05:51		06:21 (KLZ_WT23)	06:37			07:25	08:14			08:08	08:45		09:24 (ATS_WT01)
	21:51	43	07:20 (KLZ_WT16)	21:01			19:53	18:46			16:54	16:39	12	09:36 (ATS_WT01)
20	05:53		06:22 (KLZ_WT23)	06:38			07:27	08:16			08:09	08:46		09:24 (ATS_WT01)
	21:50	42	07:21 (KLZ_WT16)	20:59			19:51	18:44			16:52	16:40	13	09:37 (ATS_WT01)
21	05:54		06:23 (KLZ_WT23)	06:40			07:29	08:18			08:11	08:47		09:24 (ATS_WT01)
	21:49	40	07:21 (KLZ_WT16)	20:57			19:48	18:42			16:51	16:40	13	09:37 (ATS_WT01)
22	05:55		06:41 (KLZ_WT22)	06:42			07:30	08:19			08:12	08:47		09:25 (ATS_WT01)
	21:48	40	07:21 (KLZ_WT16)	20:55			19:46	18:40			16:50	16:40	13	09:38 (ATS_WT01)
23	05:57		06:41 (KLZ_WT22)	06:43		07:09 (CBR_WT01)	07:32	08:21			08:14	08:48		09:25 (ATS_WT01)
	21:47	40	07:21 (KLZ_WT16)	20:53	6	07:15 (KLZ_WT08)	19:44	18:38			16:49	16:41	13	09:38 (ATS_WT01)
24	05:58		06:42 (KLZ_WT22)	06:45		07:11 (KLZ_WT08)	07:33	08:23			08:16	08:48		09:26 (ATS_WT01)
	21:45	40	07:22 (KLZ_WT16)	20:51	6	07:17 (KLZ_WT08)	19:41	18:36			16:48	16:42	12	09:38 (ATS_WT01)
25	05:59		06:42 (KLZ_WT22)	06:46		07:12 (KLZ_WT08)	07:35	07:24			08:17	08:48		09:27 (ATS_WT01)
	21:44	40	07:22 (KLZ_WT16)	20:48	5	07:17 (KLZ_WT08)	19:39	17:34			16:47	16:42	12	09:39 (ATS_WT01)
26	06:01		06:42 (KLZ_WT22)	06:48		07:14 (KLZ_WT08)	07:37	07:26			08:19	08:49		09:27 (ATS_WT01)
	21:43	40	07:22 (KLZ_WT16)	20:46	4	07:18 (KLZ_WT08)	19:37	17:32			16:46	16:43	12	09:39 (ATS_WT01)
27	06:02		06:43 (KLZ_WT22)	06:49		07:15 (KLZ_WT08)	07:38	07:28			08:20	08:49		09:28 (ATS_WT01)
	21:41	40	07:23 (KLZ_WT16)	20:44	2	07:17 (KLZ_WT08)	19:35	17:30			16:45	16:44	11	09:39 (ATS_WT01)
28	06:03		06:43 (KLZ_WT22)	06:51			07:40	07:30			08:22	08:49		09:28 (ATS_WT01)
	21:40	39	07:22 (KLZ_WT16)	20:42			19:32	17:29			16:44	16:44	11	09:39 (ATS_WT01)
29	06:05		06:43 (KLZ_WT22)	06:53			07:41	07:31			08:23	08:49		09:29 (ATS_WT01)
	21:38	39	07:22 (KLZ_WT16)	20:40			19:30	17:27			16:44	16:45	10	09:39 (ATS_WT01)
30	06:06		06:44 (KLZ_WT22)	06:54			07:43	07:33			08:25	08:50		09:29 (ATS_WT01)
	21:37	38	07:22 (KLZ_WT16)	20:38			19:28	17:25			16:43	16:46	11	09:40 (ATS_WT01)
31	06:08		06:44 (KLZ_WT22)	06:56				07:35				08:50		09:30 (ATS_WT01)
	21:35	38	07:22 (KLZ_WT16)	20:36				17:23				16:47	10	09:40 (ATS_WT01)
Potential sun hours	498			451			380	333			269	248		
Total, worst case		1263			349				36				247	
Sun reduction		0,45			0,47				0,36				0,23	
Oper. time red.		0,98			0,98				0,98				0,98	
Wind dir. red.		0,68			0,68				0,55				0,53	
Total reduction		0,30			0,31				0,20				0,12	
Total, real		377			107				7				29	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (CBR_WT01)	06:20		06:44 (KLZ_WT21)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	37	08:39 (KLZ_WT22)	21:06	53	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:44 (CBR_WT01)	06:18		06:42 (KLZ_WT21)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	37	08:38 (KLZ_WT22)	21:08	53	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19		08:07 (KLZ_WT22)	06:17		06:41 (KLZ_WT21)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20	30	08:37 (KLZ_WT22)	21:10	55	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17		08:08 (KLZ_WT22)	06:15		06:39 (KLZ_WT21)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22	29	08:37 (KLZ_WT22)	21:11	56	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14		08:08 (KLZ_WT22)	06:13		06:37 (KLZ_WT23)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24	28	08:36 (KLZ_WT22)	21:13	56	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12		08:09 (KLZ_WT22)	06:11		06:38 (KLZ_WT23)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25	26	08:35 (KLZ_WT22)	21:14	55	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10		08:09 (KLZ_WT22)	06:09		06:38 (KLZ_WT23)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27	23	08:32 (KLZ_WT22)	21:16	53	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08		08:10 (KLZ_WT22)	06:08		06:39 (KLZ_WT21)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29	20	08:30 (KLZ_WT22)	21:18	49	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06		08:12 (KLZ_WT22)	06:06		06:41 (KLZ_WT21)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30	16	08:28 (KLZ_WT22)	21:19	45	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03		08:15 (KLZ_WT22)	06:04		06:42 (KLZ_WT21)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32	10	08:25 (KLZ_WT22)	21:21	40	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46		07:20 (KLZ_WT22)	06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01	13	07:33 (KLZ_WT22)	20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44		07:17 (KLZ_WT22)	06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02	18	07:35 (KLZ_WT22)	20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41		07:15 (KLZ_WT22)	06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04	22	07:37 (KLZ_WT22)	20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39		07:13 (KLZ_WT22)	06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06	25	07:38 (KLZ_WT22)	20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37		07:12 (KLZ_WT22)	06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07	27	07:39 (KLZ_WT22)	20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35		07:11 (KLZ_WT22)	06:28		06:51 (KLZ_WT21)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09	28	07:39 (KLZ_WT22)	21:00	41	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32		07:10 (KLZ_WT22)	06:26		06:50 (KLZ_WT21)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11	30	07:40 (KLZ_WT22)	21:01	44	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (CBR_WT01)	06:24		06:48 (KLZ_WT21)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	32	08:39 (KLZ_WT22)	21:03	48	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (CBR_WT01)	06:22		06:46 (KLZ_WT21)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	34	08:39 (KLZ_WT22)	21:05	49	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (CBR_WT01)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	36	08:39 (KLZ_WT22)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		156			655			291			761			692			20	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,55			0,55			0,60			0,63			0,65			0,71	
Total reduction		0,13			0,16			0,22			0,29			0,29			0,31	
Total, real		21			105			65			217			201			6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December
1	05:34	06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1 06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35	06:04 (KLZ_WT17)	06:11		06:55 (KLZ_WT21)	06:59		08:13 (KLZ_WT22)	07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1 06:05 (KLZ_WT17)	21:32	35	07:52 (KLZ_WT15)	20:31	10	08:23 (KLZ_WT22)	19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35		06:12		06:52 (KLZ_WT21)	07:00		08:10 (KLZ_WT22)	07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04		21:30	42	07:52 (KLZ_WT15)	20:29	16	08:26 (KLZ_WT22)	19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36		06:14		06:51 (KLZ_WT21)	07:02		08:08 (KLZ_WT22)	07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03		21:29	47	07:54 (KLZ_WT15)	20:27	19	08:27 (KLZ_WT22)	19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37		06:15		06:49 (KLZ_WT21)	07:03		08:06 (KLZ_WT22)	07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03		21:27	50	07:54 (KLZ_WT15)	20:24	23	08:29 (KLZ_WT22)	19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38		06:17		06:48 (KLZ_WT21)	07:05		08:04 (KLZ_WT22)	07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02		21:25	53	07:54 (KLZ_WT15)	20:22	26	08:30 (KLZ_WT22)	19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38		06:18		06:47 (KLZ_WT23)	07:07		08:03 (KLZ_WT22)	07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02		21:24	56	07:55 (KLZ_WT15)	20:20	28	08:31 (KLZ_WT22)	19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39		06:20		06:47 (KLZ_WT21)	07:08		08:02 (KLZ_WT22)	07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01		21:22	57	07:55 (KLZ_WT15)	20:18	29	08:31 (KLZ_WT22)	19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40		06:21		06:49 (KLZ_WT21)	07:10		08:01 (KLZ_WT22)	07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00		21:20	56	07:56 (KLZ_WT15)	20:16	31	08:32 (KLZ_WT22)	19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41		06:23		06:50 (KLZ_WT21)	07:11		07:37 (CBR_WT01)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00		21:18	55	07:55 (KLZ_WT15)	20:13	37	08:31 (KLZ_WT22)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42		06:24		06:52 (KLZ_WT21)	07:13		07:38 (CBR_WT01)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59		21:16	53	07:56 (KLZ_WT15)	20:11	37	08:31 (KLZ_WT22)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43		06:26		06:53 (KLZ_WT21)	07:14		07:39 (CBR_WT01)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58		21:15	51	07:55 (KLZ_WT15)	20:09	37	08:31 (KLZ_WT22)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44		06:27		06:54 (KLZ_WT21)	07:16		07:41 (CBR_WT01)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57		21:13	50	07:55 (KLZ_WT15)	20:06	36	08:31 (KLZ_WT22)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45		06:29		06:56 (KLZ_WT21)	07:18		07:42 (CBR_WT01)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57		21:11	46	07:55 (KLZ_WT15)	20:04	33	08:30 (KLZ_WT22)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47		06:31		06:57 (KLZ_WT21)	07:19		07:59 (KLZ_WT22)	08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56		21:09	43	07:54 (KLZ_WT15)	20:02	30	08:29 (KLZ_WT22)	18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48		06:32		07:15 (KLZ_WT15)	07:21		08:00 (KLZ_WT22)	08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55		21:07	39	07:54 (KLZ_WT15)	20:00	29	08:29 (KLZ_WT22)	18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49		06:34		07:15 (KLZ_WT15)	07:22		08:00 (KLZ_WT22)	08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54		21:05	38	07:53 (KLZ_WT15)	19:57	27	08:27 (KLZ_WT22)	18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50		06:35		07:16 (KLZ_WT15)	07:24		08:01 (KLZ_WT22)	08:13			08:06			08:45
	21:53		21:03	37	07:53 (KLZ_WT15)	19:55	25	08:26 (KLZ_WT22)	18:48			16:55			16:39
19	05:51		06:37		07:16 (KLZ_WT15)	07:25		08:02 (KLZ_WT22)	08:14			08:08			08:45
	21:51		21:01	36	07:52 (KLZ_WT15)	19:53	22	08:24 (KLZ_WT22)	18:46			16:54			16:39
20	05:53		06:38		07:17 (KLZ_WT15)	07:27		08:03 (KLZ_WT22)	08:16			08:09			08:46
	21:50		20:59	35	07:52 (KLZ_WT15)	19:51	19	08:22 (KLZ_WT22)	18:44			16:52			16:40
21	05:54		06:40		07:17 (KLZ_WT15)	07:29		08:05 (KLZ_WT22)	08:18			08:11			08:47
	21:49		20:57	33	07:50 (KLZ_WT15)	19:48	14	08:19 (KLZ_WT22)	18:42			16:51			16:40
22	05:55		06:41		07:08 (SAM_WT07)	07:30		08:10 (KLZ_WT22)	08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48		20:55	34	07:49 (KLZ_WT15)	19:46	4	08:14 (KLZ_WT22)	18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57		06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47		20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58		06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45		20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59	07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3 07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01	07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12 07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02	07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16 07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03	07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20 07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05	07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23 07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06	07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26 07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08	07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28 07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498		451			380			333			269			248
Total, worst case		130		1079			557			282			538		
Sun reduction		0,45		0,47			0,43			0,36			0,27		
Oper. time red.		0,98		0,98			0,98			0,98			0,98		
Wind dir. red.		0,64		0,65			0,61			0,55			0,55		
Total reduction		0,28		0,30			0,26			0,19			0,14		
Total, real		37		319			143			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (CBR_WT01)	06:20			05:37		06:24 (KLZ_WT21)
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	66	09:28 (KLZ_WT22)	21:06			21:51	15	06:39 (KLZ_WT21)
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (CBR_WT01)	06:18			05:36		06:25 (KLZ_WT21)
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	68	09:27 (KLZ_WT22)	21:08			21:52	14	06:39 (KLZ_WT21)
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:44 (CBR_WT01)	06:17			05:35		06:26 (KLZ_WT21)
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	66	09:27 (KLZ_WT22)	21:10			21:53	12	06:38 (KLZ_WT21)
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:46 (CBR_WT01)	06:15			05:34		06:27 (KLZ_WT21)
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	61	09:27 (KLZ_WT22)	21:11			21:54	10	06:37 (KLZ_WT21)
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14		08:30 (KLZ_WT22)	06:13			05:34		06:28 (KLZ_WT21)
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24	56	09:26 (KLZ_WT22)	21:13			21:55	8	06:36 (KLZ_WT21)
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12		08:29 (KLZ_WT22)	06:11		06:36 (SAM_WT06)	05:33		06:30 (KLZ_WT21)
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25	56	09:25 (KLZ_WT22)	21:14	2	06:38 (SAM_WT06)	21:56	4	06:34 (KLZ_WT21)
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10		08:29 (KLZ_WT22)	06:09		06:34 (SAM_WT06)	05:32		
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27	55	09:24 (KLZ_WT22)	21:16	3	06:37 (SAM_WT06)	21:56		
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08		08:29 (KLZ_WT22)	06:08		06:32 (KLZ_WT23)	05:32		
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29	55	09:24 (KLZ_WT22)	21:17	4	06:36 (SAM_WT06)	21:57		
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06		08:29 (KLZ_WT22)	06:06		06:31 (KLZ_WT21)	05:31		
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30	54	09:23 (KLZ_WT22)	21:19	6	06:37 (KLZ_WT23)	21:58		
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03		08:29 (KLZ_WT22)	06:04		06:29 (KLZ_WT21)	05:31		
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32	54	09:23 (KLZ_WT22)	21:21	9	06:38 (KLZ_WT23)	21:59		
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01		08:30 (KLZ_WT22)	06:03		06:28 (KLZ_WT21)	05:31		
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34	52	09:22 (KLZ_WT22)	21:22	11	06:39 (KLZ_WT21)	22:00		
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59		08:29 (KLZ_WT22)	06:01		06:26 (KLZ_WT21)	05:30		
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35	51	09:20 (KLZ_WT22)	21:24	13	06:39 (KLZ_WT21)	22:00		
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57		08:29 (KLZ_WT22)	06:00		06:25 (KLZ_WT21)	05:30		
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37	50	09:19 (KLZ_WT22)	21:25	15	06:40 (KLZ_WT21)	22:01		
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55		08:30 (KLZ_WT22)	05:58		06:23 (KLZ_WT21)	05:30		
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39	47	09:17 (KLZ_WT22)	21:27	17	06:40 (KLZ_WT21)	22:02		
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53		08:31 (KLZ_WT22)	05:57		06:22 (KLZ_WT21)	05:30		
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40	45	09:16 (KLZ_WT22)	21:28	19	06:41 (KLZ_WT21)	22:02		
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50		08:32 (KLZ_WT22)	05:55		06:21 (KLZ_WT21)	05:30		
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42	43	09:15 (KLZ_WT22)	21:30	21	06:42 (KLZ_WT21)	22:03		
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48		08:33 (KLZ_WT22)	05:54		06:19 (KLZ_WT21)	05:30		
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43	40	09:13 (KLZ_WT22)	21:31	23	06:42 (KLZ_WT21)	22:03		
18	08:41		09:09 (RHR_WT03)	07:55			06:55		07:55 (KLZ_WT22)	06:46		08:34 (KLZ_WT22)	05:52		06:18 (KLZ_WT21)	05:30		
	17:11	13	09:23 (ALB_WT01)	18:05			18:54	18	08:13 (KLZ_WT22)	20:45	37	09:11 (KLZ_WT22)	21:33	24	06:42 (KLZ_WT21)	22:03		
19	08:40		09:08 (RHR_WT03)	07:53			06:53		07:51 (KLZ_WT22)	06:44		08:35 (KLZ_WT22)	05:51		06:19 (KLZ_WT21)	05:30		
	17:13	13	09:23 (ALB_WT01)	18:07			18:56	25	08:16 (KLZ_WT22)	20:47	34	09:09 (KLZ_WT22)	21:34	23	06:42 (KLZ_WT21)	22:04		
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50		07:49 (KLZ_WT22)	06:42		08:37 (KLZ_WT22)	05:49		06:19 (KLZ_WT21)	05:30		
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57	30	08:19 (KLZ_WT22)	20:48	30	09:07 (KLZ_WT22)	21:35	24	06:43 (KLZ_WT21)	22:04		
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48		07:45 (KLZ_WT22)	06:40		08:38 (KLZ_WT22)	05:48		06:19 (KLZ_WT21)	05:30		
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59	35	08:20 (KLZ_WT22)	20:50	26	09:04 (KLZ_WT22)	21:37	24	06:43 (KLZ_WT21)	22:04		
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:18 (KLZ_WT21)	05:30		
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	40	08:22 (KLZ_WT22)	20:52	22	09:01 (KLZ_WT22)	21:38	24	06:42 (KLZ_WT21)	22:05		
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:19 (KLZ_WT21)	05:30		
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	45	08:24 (KLZ_WT22)	20:53	15	08:56 (KLZ_WT22)	21:40	23	06:42 (KLZ_WT21)	22:05		
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44		06:19 (KLZ_WT21)	05:31		
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	50	08:25 (KLZ_WT22)	20:55	5	07:02 (SAM_WT07)	21:41	23	06:42 (KLZ_WT21)	22:05		
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43		06:19 (KLZ_WT21)	05:31		
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	53	08:25 (KLZ_WT22)	20:57	6	07:01 (SAM_WT07)	21:42	22	06:41 (KLZ_WT21)	22:05		
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42		06:20 (KLZ_WT21)	05:31		
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	51	08:26 (KLZ_WT22)	20:58	7	07:00 (SAM_WT07)	21:43	21	06:41 (KLZ_WT21)	22:05		
27	08:31		08:57 (RHR_WT02)	07:36			06:35		06:57 (KLZ_WT11)	06:28			05:41		06:20 (KLZ_WT21)	05:32		
	17:26	3	09:00 (RHR_WT02)	18:21			19:09	52	08:27 (KLZ_WT22)	21:00			21:45	21	06:41 (KLZ_WT21)	22:05		
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT11)	06:26			05:40		06:22 (KLZ_WT21)	05:32		
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	54	08:27 (KLZ_WT22)	21:01			21:46	19	06:41 (KLZ_WT21)	22:05		
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (CBR_WT01)	06:24			05:39		06:22 (KLZ_WT21)	05:33		
	17:29	4	08:58 (RHR_WT02)				20:12	57	09:27 (KLZ_WT22)	21:03			21:47	19	06:41 (KLZ_WT21)	22:05		
30	08:27						07:28		07:50 (CBR_WT01)	06:22			05:38		06:23 (KLZ_WT21)	05:33		
	17:31						20:14	60	09:27 (KLZ_WT22)	21:05			21:48	17	06:40 (KLZ_WT21)	22:04		
31	08:26						07:26		07:48 (CBR_WT01)				05:37		06:23 (KLZ_WT21)			
	17:33						20:15	63	09:27 (KLZ_WT22)				21:49	16	06:39 (KLZ_WT21)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		779			33			735			1101			443			63	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,56			0,58			0,58			0,69			0,69	
Total reduction		0,16			0,16			0,21			0,26			0,31			0,30	
Total, real		122			5			157			289			137			19	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (KLZ_WT21)	06:57		08:28 (KLZ_WT22)	07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04			21:34	12	06:49 (KLZ_WT21)	20:33	53	09:21 (KLZ_WT22)	19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35			06:11		06:39 (KLZ_WT21)	06:59		08:27 (KLZ_WT22)	07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04			21:32	10	06:49 (KLZ_WT21)	20:31	54	09:21 (KLZ_WT22)	19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35			06:12		06:40 (KLZ_WT21)	07:00		08:27 (KLZ_WT22)	07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04			21:30	8	06:48 (KLZ_WT23)	20:29	54	09:21 (KLZ_WT22)	19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36			06:14		06:41 (KLZ_WT21)	07:02		08:26 (KLZ_WT22)	07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03			21:29	5	06:46 (KLZ_WT23)	20:27	55	09:21 (KLZ_WT22)	19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37			06:15		06:43 (KLZ_WT23)	07:03		08:26 (KLZ_WT22)	07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03			21:27	4	06:47 (SAM_WT06)	20:24	56	09:22 (KLZ_WT22)	19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38			06:17		06:44 (SAM_WT06)	07:05		08:25 (KLZ_WT22)	07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02			21:25	3	06:47 (SAM_WT06)	20:22	56	09:21 (KLZ_WT22)	19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38		06:35 (KLZ_WT21)	06:18		06:46 (SAM_WT06)	07:07		08:25 (KLZ_WT22)	07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02	6	06:41 (KLZ_WT21)	21:24	1	06:47 (SAM_WT06)	20:20	56	09:21 (KLZ_WT22)	19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39		06:34 (KLZ_WT21)	06:20			07:08		07:40 (CBR_WT01)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01	9	06:43 (KLZ_WT21)	21:22			20:18	61	09:21 (KLZ_WT22)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40		06:33 (KLZ_WT21)	06:21			07:10		07:38 (CBR_WT01)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00	11	06:44 (KLZ_WT21)	21:20			20:15	66	09:21 (KLZ_WT22)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41		06:33 (KLZ_WT21)	06:23			07:11		07:36 (CBR_WT01)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00	13	06:46 (KLZ_WT21)	21:18			20:13	68	09:20 (KLZ_WT22)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42		06:32 (KLZ_WT21)	06:24			07:13		07:38 (CBR_WT01)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59	15	06:47 (KLZ_WT21)	21:16			20:11	66	09:20 (KLZ_WT22)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43		06:32 (KLZ_WT21)	06:26			07:14		07:39 (CBR_WT01)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58	15	06:47 (KLZ_WT21)	21:14			20:09	64	09:19 (KLZ_WT22)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44		06:31 (KLZ_WT21)	06:27			07:16		07:41 (CBR_WT01)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57	17	06:48 (KLZ_WT21)	21:13			20:06	61	09:19 (KLZ_WT22)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45		06:31 (KLZ_WT21)	06:29			07:18		07:42 (CBR_WT01)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56	18	06:49 (KLZ_WT21)	21:11			20:04	58	09:17 (KLZ_WT22)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47		06:30 (KLZ_WT21)	06:31			07:19		07:44 (KLZ_WT11)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56	20	06:50 (KLZ_WT21)	21:09			20:02	54	09:17 (KLZ_WT22)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48		06:30 (KLZ_WT21)	06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT11)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55	20	06:50 (KLZ_WT21)	21:07	3	07:05 (SAM_WT07)	20:00	53	09:15 (KLZ_WT22)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49		06:30 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22		08:25 (KLZ_WT22)	08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54	21	06:51 (KLZ_WT21)	21:05	7	07:07 (SAM_WT07)	19:57	49	09:14 (KLZ_WT22)	18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50		06:29 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53	22	06:51 (KLZ_WT21)	21:03	6	07:08 (SAM_WT07)	19:55	54	09:14 (KLZ_WT22)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51		06:29 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51	22	06:51 (KLZ_WT21)	21:01	5	07:08 (SAM_WT07)	19:53	51	09:12 (KLZ_WT22)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53		06:29 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50	23	06:52 (KLZ_WT21)	20:59	17	09:03 (KLZ_WT22)	19:50	45	09:10 (KLZ_WT22)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54		06:29 (KLZ_WT21)	06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49	23	06:52 (KLZ_WT21)	20:57	23	09:06 (KLZ_WT22)	19:48	41	09:08 (KLZ_WT22)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55		06:29 (KLZ_WT21)	06:41		08:43 (KLZ_WT22)	07:30		08:30 (KLZ_WT22)	08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48	23	06:52 (KLZ_WT21)	20:55	26	09:09 (KLZ_WT22)	19:46	36	09:06 (KLZ_WT22)	18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56		06:29 (KLZ_WT21)	06:43		08:40 (KLZ_WT22)	07:32		08:31 (KLZ_WT22)	08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47	23	06:52 (KLZ_WT21)	20:53	31	09:11 (KLZ_WT22)	19:44	32	09:03 (KLZ_WT22)	18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58		06:29 (KLZ_WT21)	06:45		08:39 (KLZ_WT22)	07:33		08:34 (KLZ_WT22)	08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45	24	06:53 (KLZ_WT21)	20:50	34	09:13 (KLZ_WT22)	19:41	27	09:01 (KLZ_WT22)	18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59		06:29 (KLZ_WT21)	06:46		08:36 (KLZ_WT22)	07:35		08:37 (KLZ_WT22)	07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44	24	06:53 (KLZ_WT21)	20:48	38	09:14 (KLZ_WT22)	19:39	21	08:58 (KLZ_WT22)	17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48		08:35 (KLZ_WT22)	07:37		08:42 (KLZ_WT22)	07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43	23	06:52 (KLZ_WT21)	20:46	41	09:16 (KLZ_WT22)	19:37	9	08:51 (KLZ_WT22)	17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT21)	06:49		08:33 (KLZ_WT22)	07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41	22	06:52 (KLZ_WT21)	20:44	44	09:17 (KLZ_WT22)	19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT21)	06:51		08:33 (KLZ_WT22)	07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40	20	06:52 (KLZ_WT21)	20:42	45	09:18 (KLZ_WT22)	19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT21)	06:52		08:31 (KLZ_WT22)	07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38	19	06:52 (KLZ_WT21)	20:40	47	09:18 (KLZ_WT22)	19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06		06:35 (KLZ_WT21)	06:54		08:30 (KLZ_WT22)	07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37	17	06:52 (KLZ_WT21)	20:38	50	09:20 (KLZ_WT22)	19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT21)	06:56		08:29 (KLZ_WT22)				07:35						08:50		12:36 (KLZ_WT16)
	21:35	15	06:51 (KLZ_WT21)	20:35	51	09:20 (KLZ_WT22)				17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		465			511			1300			119			311			1476	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,69			0,59			0,58			0,56			0,60			0,68	
Total reduction		0,30			0,27			0,25			0,20			0,16			0,15	
Total, real		141			138			319			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		06:09 (KLZ_WT21)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	103	10:54 (KLZ_WT22)	21:06	75	19:55 (KLZ_WT15)	21:51	104	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		06:10 (KLZ_WT21)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	100	10:53 (KLZ_WT22)	21:08	76	19:56 (KLZ_WT15)	21:52	102	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (CBR_WT01)	06:17		18:40 (KLZ_WT15)	05:35		06:10 (KLZ_WT21)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	96	10:52 (KLZ_WT22)	21:10	77	19:57 (KLZ_WT15)	21:53	101	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17		09:25 (KLZ_WT22)	06:15		18:39 (KLZ_WT15)	05:34		06:09 (KLZ_WT21)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	18	09:26 (KLZ_WT22)	20:22	87	10:52 (KLZ_WT22)	21:11	78	19:57 (KLZ_WT15)	21:54	101	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24		09:06 (KLZ_WT22)	07:14		09:25 (KLZ_WT22)	06:13		18:38 (KLZ_WT15)	05:34		06:10 (KLZ_WT21)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32	26	09:32 (KLZ_WT22)	20:24	86	10:51 (KLZ_WT22)	21:13	79	19:57 (KLZ_WT15)	21:55	101	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21		09:02 (KLZ_WT22)	07:12		09:24 (KLZ_WT22)	06:11		18:39 (KLZ_WT15)	05:33		06:10 (KLZ_WT21)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33	35	09:37 (KLZ_WT22)	20:25	85	10:49 (KLZ_WT22)	21:14	79	19:58 (KLZ_WT15)	21:56	100	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19		08:58 (KLZ_WT22)	07:10		09:24 (KLZ_WT22)	06:09		18:38 (KLZ_WT15)	05:32		06:10 (KLZ_WT21)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35	42	09:40 (KLZ_WT22)	20:27	85	10:49 (KLZ_WT22)	21:16	80	19:58 (KLZ_WT15)	21:56	100	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17		08:56 (KLZ_WT22)	07:08		09:24 (KLZ_WT22)	06:08		06:32 (SAM_WT06)	05:32		06:11 (KLZ_WT21)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37	47	09:43 (KLZ_WT22)	20:29	84	10:48 (KLZ_WT22)	21:17	81	19:57 (KLZ_WT15)	21:57	99	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15		08:53 (KLZ_WT22)	07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39	52	09:45 (KLZ_WT22)	20:30	83	10:47 (KLZ_WT22)	21:19	83	19:58 (KLZ_WT15)	21:58	99	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13		08:50 (KLZ_WT22)	07:03		09:25 (KLZ_WT22)	06:04		06:29 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40	56	09:46 (KLZ_WT22)	20:32	81	10:46 (KLZ_WT22)	21:21	86	19:58 (KLZ_WT15)	21:59	99	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11		08:48 (KLZ_WT22)	07:01		09:25 (KLZ_WT22)	06:03		06:28 (SAM_WT06)	05:31		06:12 (KLZ_WT21)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42	60	09:48 (KLZ_WT22)	20:34	79	10:44 (KLZ_WT22)	21:22	86	19:58 (KLZ_WT15)	22:00	97	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08		08:46 (KLZ_WT22)	06:59		09:25 (KLZ_WT22)	06:01		06:26 (SAM_WT06)	05:30		06:11 (KLZ_WT21)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44	64	09:50 (KLZ_WT22)	20:35	77	10:42 (KLZ_WT22)	21:24	88	19:58 (KLZ_WT15)	22:00	99	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06		08:45 (KLZ_WT22)	06:57		09:25 (KLZ_WT22)	06:00		06:25 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45	66	09:51 (KLZ_WT22)	20:37	83	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	97	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04		08:42 (KLZ_WT22)	06:55		09:25 (KLZ_WT22)	05:58		06:23 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47	69	09:51 (KLZ_WT22)	20:38	98	19:32 (KLZ_WT15)	21:27	89	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02		08:41 (KLZ_WT22)	06:53		09:26 (KLZ_WT22)	05:56		06:22 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49	72	09:53 (KLZ_WT22)	20:40	103	19:36 (KLZ_WT15)	21:28	91	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59		08:40 (KLZ_WT22)	06:50		07:13 (SAM_WT11)	05:55		06:21 (KLZ_WT23)	05:30		06:13 (KLZ_WT21)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50	74	09:54 (KLZ_WT22)	20:42	107	19:38 (KLZ_WT15)	21:30	94	19:59 (KLZ_WT15)	22:03	96	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57		08:39 (KLZ_WT22)	06:48		07:11 (SAM_WT11)	05:54		06:19 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52	76	09:55 (KLZ_WT22)	20:43	112	19:41 (KLZ_WT15)	21:31	95	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		06:18 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	80	09:54 (KLZ_WT22)	20:45	113	19:43 (KLZ_WT15)	21:33	97	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		09:29 (KLZ_WT22)	05:51		06:17 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	84	09:55 (KLZ_WT22)	20:47	111	19:44 (KLZ_WT15)	21:34	99	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		09:29 (KLZ_WT22)	05:49		06:16 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	88	09:56 (KLZ_WT22)	20:48	113	19:46 (KLZ_WT15)	21:35	100	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		09:30 (KLZ_WT22)	05:48		06:15 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	92	09:56 (KLZ_WT22)	20:50	113	19:47 (KLZ_WT15)	21:37	101	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:13 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	93	09:56 (KLZ_WT22)	20:52	115	19:49 (KLZ_WT15)	21:38	102	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:06 (KLZ_WT11)	06:36		06:59 (SAM_WT07)	05:46		06:12 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	92	09:56 (KLZ_WT22)	20:53	115	19:50 (KLZ_WT15)	21:40	102	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41		07:04 (KLZ_WT11)	06:34		06:57 (SAM_WT07)	05:44		06:11 (KLZ_WT21)	05:31		06:14 (KLZ_WT21)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04	89	09:57 (KLZ_WT22)	20:55	115	19:51 (KLZ_WT15)	21:41	103	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT11)	06:32		06:55 (SAM_WT07)	05:43		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	92	09:56 (KLZ_WT22)	20:57	115	19:51 (KLZ_WT15)	21:42	104	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT11)	06:30		06:53 (SAM_WT07)	05:42		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	92	09:56 (KLZ_WT22)	20:58	113	19:52 (KLZ_WT15)	21:43	103	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (CBR_WT01)	06:28		06:51 (SAM_WT07)	05:41		06:10 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	91	09:56 (KLZ_WT22)	21:00	111	19:53 (KLZ_WT15)	21:45	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (CBR_WT01)	06:26		06:51 (SAM_WT07)	05:40		06:09 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	95	09:56 (KLZ_WT22)	21:01	106	19:54 (KLZ_WT15)	21:46	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (CBR_WT01)	06:24		06:53 (SAM_WT07)	05:39		06:10 (KLZ_WT21)	05:33		06:16 (KLZ_WT21)
	17:29	3	08:57 (RHR_WT01)				20:12	97	10:55 (KLZ_WT22)	21:03	95	19:55 (KLZ_WT15)	21:47	103	19:58 (KLZ_WT15)	22:05	97	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (CBR_WT01)	06:22		18:41 (KLZ_WT15)	05:38		06:10 (KLZ_WT21)	05:33		06:15 (KLZ_WT21)
	17:31	5	08:58 (RHR_WT01)				20:14	99	10:55 (KLZ_WT22)	21:05	74	19:55 (KLZ_WT15)	21:48	103	19:58 (KLZ_WT15)	22:04	98	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		06:09 (KLZ_WT21)			
	17:33	6	08:57 (RHR_WT01)				20:15	102	10:55 (KLZ_WT22)				21:49	104	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			2087			2958			2851			2934	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,56			0,56			0,57			0,61			0,62	
Total reduction		0,17			0,16			0,21			0,26			0,27			0,27	
Total, real		186			31			432			762			778			791	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:16 (KLZ_WT21)	06:09		06:37 (SAM_WT06)	06:57		09:24 (KLZ_WT22)	07:44		09:24 (KLZ_WT22)	07:37			08:26		09:00 (RHR_WT03)
	22:04	97	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33	79	10:43 (KLZ_WT22)	19:25	65	10:29 (KLZ_WT22)	17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		06:15 (KLZ_WT21)	06:11		06:39 (SAM_WT06)	06:59		09:23 (KLZ_WT22)	07:46		09:26 (KLZ_WT22)	07:38			08:27		09:00 (RHR_WT03)
	22:04	99	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31	81	10:44 (KLZ_WT22)	19:23	61	10:27 (KLZ_WT22)	17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		06:16 (KLZ_WT21)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48		09:27 (KLZ_WT22)	07:40			08:29		09:00 (RHR_WT03)
	22:04	98	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	83	10:45 (KLZ_WT22)	19:21	58	10:25 (KLZ_WT22)	17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		06:16 (KLZ_WT21)	06:14		06:41 (SAM_WT06)	07:02		09:21 (KLZ_WT22)	07:49		09:29 (KLZ_WT22)	07:42			08:30		09:02 (RHR_WT03)
	22:03	99	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27	84	10:45 (KLZ_WT22)	19:19	54	10:23 (KLZ_WT22)	17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		06:17 (KLZ_WT21)	06:15		06:43 (SAM_WT06)	07:03		09:21 (KLZ_WT22)	07:51		09:32 (KLZ_WT22)	07:44			08:31		09:03 (RHR_WT03)
	22:03	99	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24	85	10:46 (KLZ_WT22)	19:16	49	10:21 (KLZ_WT22)	17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		06:16 (KLZ_WT21)	06:17		18:48 (KLZ_WT15)	07:05		09:20 (KLZ_WT22)	07:53		09:33 (KLZ_WT22)	07:45			08:33		09:04 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22	85	10:45 (KLZ_WT22)	19:14	44	10:17 (KLZ_WT22)	17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		06:16 (KLZ_WT21)	06:18		18:48 (KLZ_WT15)	07:07		09:20 (KLZ_WT22)	07:54		09:36 (KLZ_WT22)	07:47			08:34		09:06 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20	86	10:46 (KLZ_WT22)	19:12	38	10:14 (KLZ_WT22)	17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		06:17 (KLZ_WT21)	06:20		18:48 (KLZ_WT15)	07:08		09:19 (KLZ_WT22)	07:56		09:40 (KLZ_WT22)	07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	102	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18	87	10:46 (KLZ_WT22)	19:10	31	10:11 (KLZ_WT22)	17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		06:17 (KLZ_WT21)	06:21		18:49 (KLZ_WT15)	07:10		07:43 (CBR_WT01)	07:58		09:44 (KLZ_WT22)	07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	96	10:47 (KLZ_WT22)	19:08	21	10:05 (KLZ_WT22)	17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		06:17 (KLZ_WT21)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	100	10:46 (KLZ_WT22)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		06:18 (KLZ_WT21)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	102	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	104	10:47 (KLZ_WT22)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		06:18 (KLZ_WT21)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	102	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	101	10:46 (KLZ_WT22)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		06:18 (KLZ_WT21)	06:27		10:00 (KLZ_WT22)	07:16		07:41 (CBR_WT01)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	102	20:06 (KLZ_WT15)	21:13	77	20:03 (KLZ_WT15)	20:06	100	10:46 (KLZ_WT22)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		06:18 (KLZ_WT21)	06:29		07:00 (SAM_WT07)	07:18		07:42 (CBR_WT01)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	104	20:07 (KLZ_WT15)	21:11	97	20:02 (KLZ_WT15)	20:04	98	10:45 (KLZ_WT22)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		06:19 (KLZ_WT21)	06:30		06:57 (SAM_WT07)	07:19		07:44 (CBR_WT01)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	103	20:07 (KLZ_WT15)	21:09	109	20:01 (KLZ_WT15)	20:02	95	10:46 (KLZ_WT22)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		06:19 (KLZ_WT21)	06:32		06:59 (SAM_WT07)	07:21		07:45 (CBR_WT01)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	103	20:07 (KLZ_WT15)	21:07	111	20:00 (KLZ_WT15)	20:00	92	10:45 (KLZ_WT22)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		06:19 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT11)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	103	20:07 (KLZ_WT15)	21:05	115	19:59 (KLZ_WT15)	19:57	93	10:45 (KLZ_WT22)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		06:20 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT11)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	103	20:07 (KLZ_WT15)	21:03	115	19:58 (KLZ_WT15)	19:55	91	10:44 (KLZ_WT22)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		06:20 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT11)	08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	103	20:07 (KLZ_WT15)	21:01	115	19:56 (KLZ_WT15)	19:53	90	10:43 (KLZ_WT22)	18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		06:22 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT11)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	104	20:09 (KLZ_WT15)	20:59	114	19:55 (KLZ_WT15)	19:50	93	10:43 (KLZ_WT22)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		06:23 (KLZ_WT21)	06:40		09:36 (KLZ_WT22)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	102	20:08 (KLZ_WT15)	20:57	113	19:53 (KLZ_WT15)	19:48	93	10:42 (KLZ_WT22)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		06:24 (KLZ_WT21)	06:41		09:35 (KLZ_WT22)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	100	20:08 (KLZ_WT15)	20:55	113	19:52 (KLZ_WT15)	19:46	93	10:41 (KLZ_WT22)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		06:25 (KLZ_WT21)	06:43		09:33 (KLZ_WT22)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	100	20:08 (KLZ_WT15)	20:53	112	19:49 (KLZ_WT15)	19:44	90	10:40 (KLZ_WT22)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		06:27 (KLZ_WT21)	06:45		09:32 (KLZ_WT22)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	99	20:09 (KLZ_WT15)	20:50	112	19:48 (KLZ_WT15)	19:41	86	10:39 (KLZ_WT22)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		06:28 (KLZ_WT21)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	98	20:09 (KLZ_WT15)	20:48	113	19:45 (KLZ_WT15)	19:39	81	10:38 (KLZ_WT22)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48		07:14 (SAM_WT11)	07:36		09:20 (KLZ_WT22)	07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	96	20:09 (KLZ_WT15)	20:46	111	19:43 (KLZ_WT15)	19:37	77	10:37 (KLZ_WT22)	17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT23)	06:49		07:15 (SAM_WT11)	07:38		09:21 (KLZ_WT22)	07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	95	20:08 (KLZ_WT15)	20:44	107	19:40 (KLZ_WT15)	19:35	75	10:36 (KLZ_WT22)	17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT23)	06:51		09:28 (KLZ_WT22)	07:40		09:21 (KLZ_WT22)	07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	92	20:09 (KLZ_WT15)	20:42	102	19:37 (KLZ_WT15)	19:32	73	10:34 (KLZ_WT22)	17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT23)	06:52		09:26 (KLZ_WT22)	07:41		09:22 (KLZ_WT22)	07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	91	20:09 (KLZ_WT15)	20:40	96	19:32 (KLZ_WT15)	19:30	71	10:33 (KLZ_WT22)	17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:34 (KLZ_WT23)	06:54		09:26 (KLZ_WT22)	07:43		09:24 (KLZ_WT22)	07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	87	20:08 (KLZ_WT15)	20:38	81	19:24 (KLZ_WT15)	19:28	67	10:31 (KLZ_WT22)	17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT23)	06:56		09:24 (KLZ_WT22)				07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35	78	10:42 (KLZ_WT22)				17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3077			2952			2629			631			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,62			0,58			0,56			0,56			0,70			0,68	
Total reduction		0,27			0,26			0,24			0,20			0,18			0,15	
Total, real		838			781			623			124			99			261	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

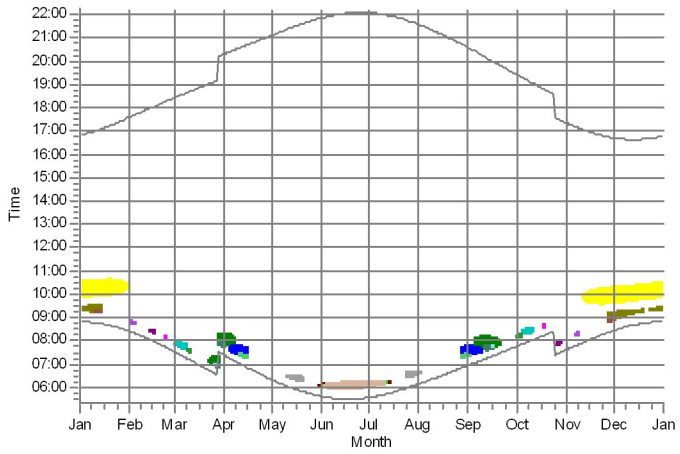
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+31 (0)88 4261 261

Calculated:
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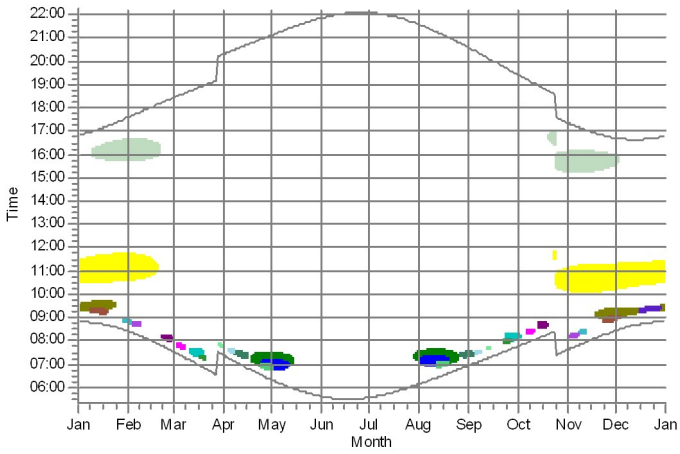
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

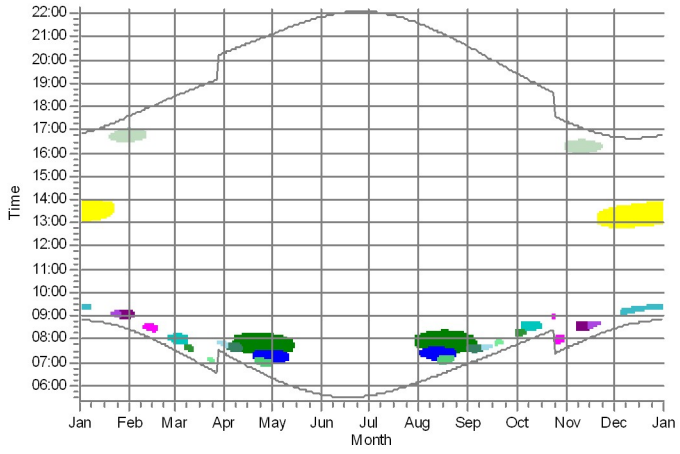
1: Hoogstraat 54, 9940 Evergem



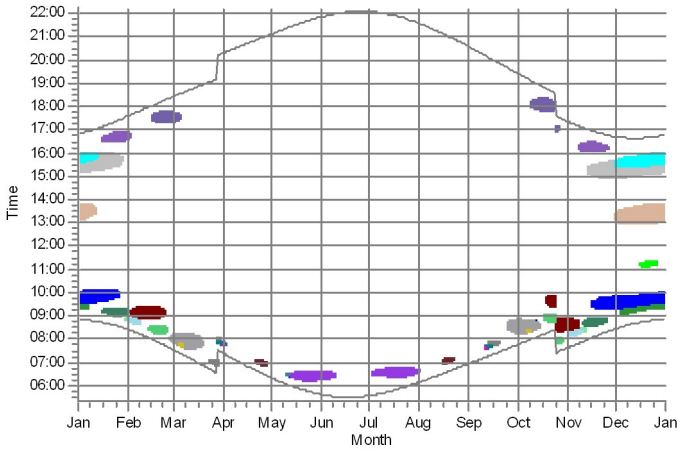
2: Pachtgoederen 2, 9940 Evergem



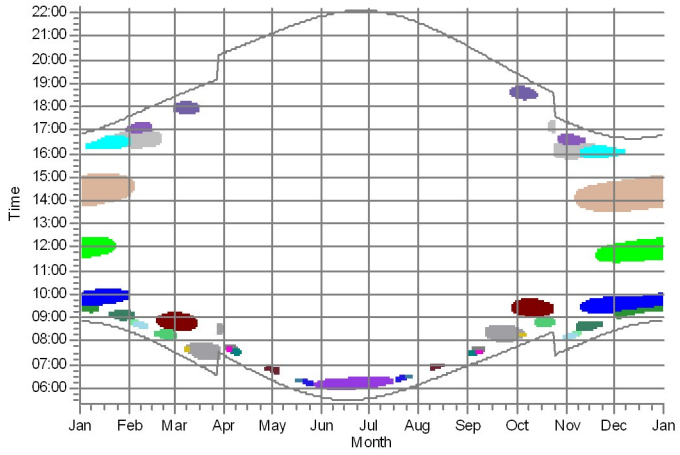
3: Pachtgoederen 2, 9940 Evergem



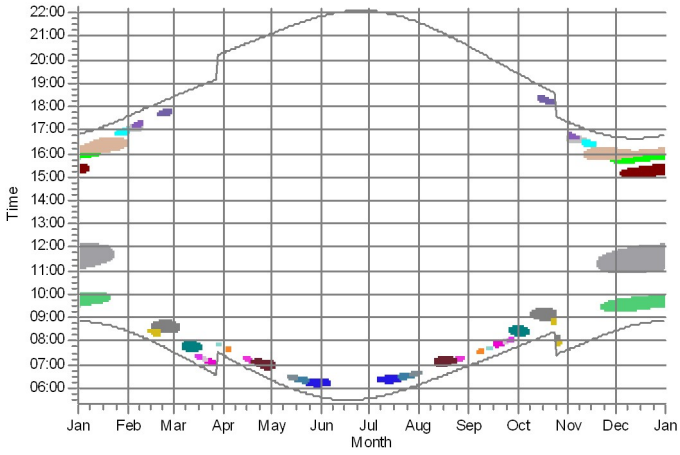
4: Ooievaarstraat 7, 9940 Evergem



5: Speidamstraat 58, 9940 Evergem



6: Rimew egel 46, 9940 Evergem



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT22: KLZ_WT22 Magelaanstraat
- KLZ_WT23: KLZ_WT23 Stukwerkers
- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)
- EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)
- EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
- SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

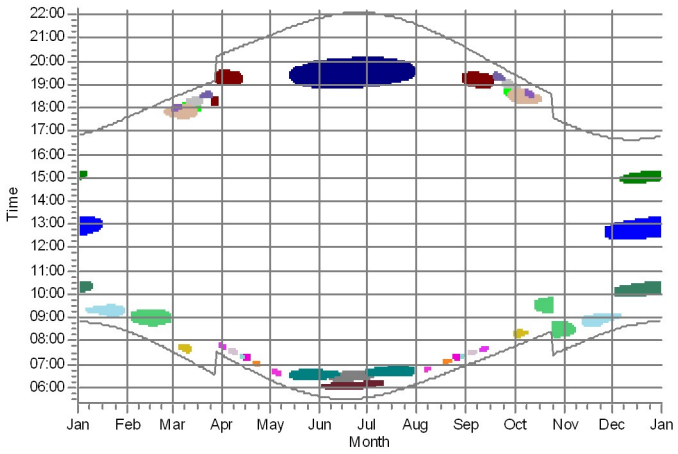
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+31 (0)88 4261 261

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09/04/2026 09:13/4.1.264

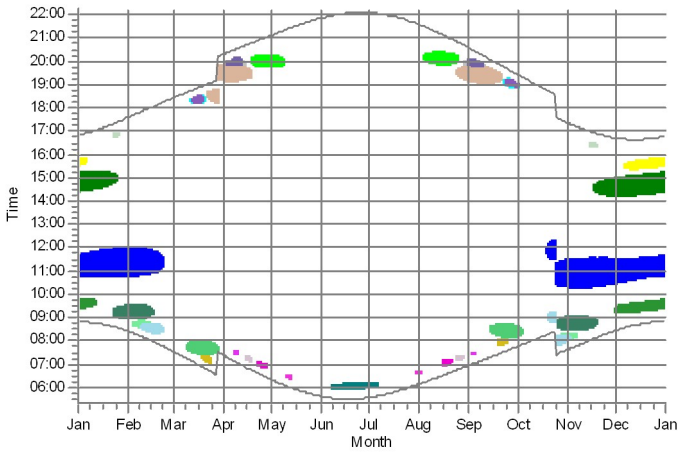
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

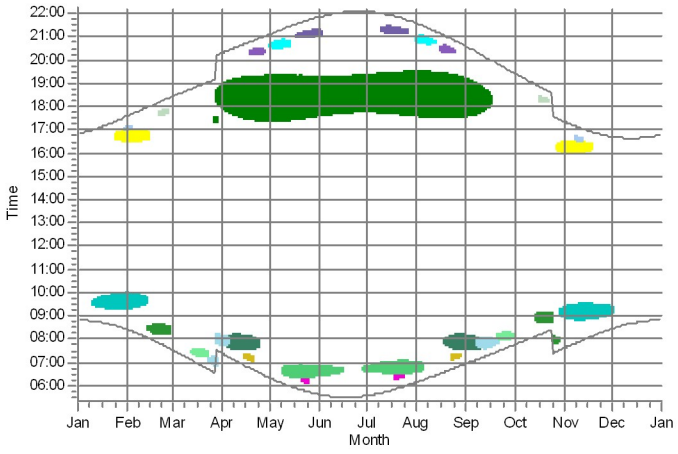
7: Christoffel Columbuslaan 23, 9042 Gent



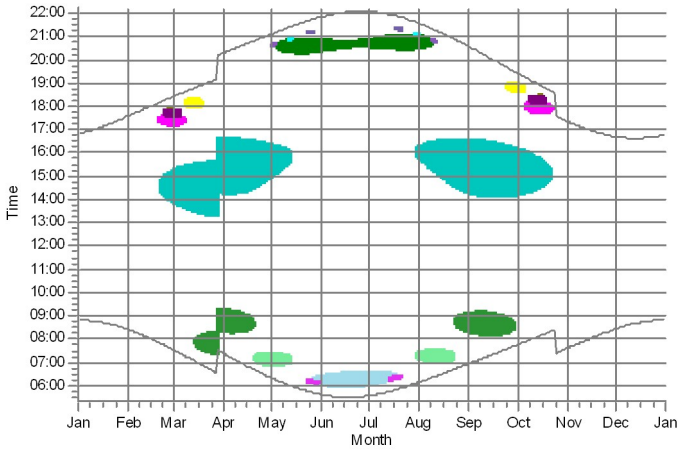
8: Christoffel Columbuslaan 23, 9042 Gent



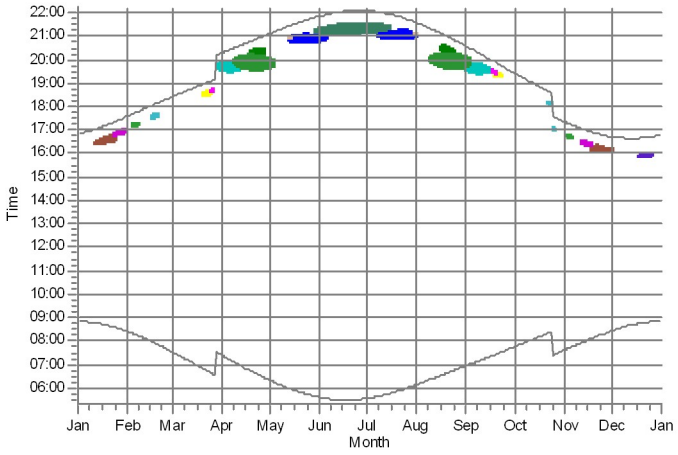
9: Willem van Rubroeckstraat 2, 9042 Gent



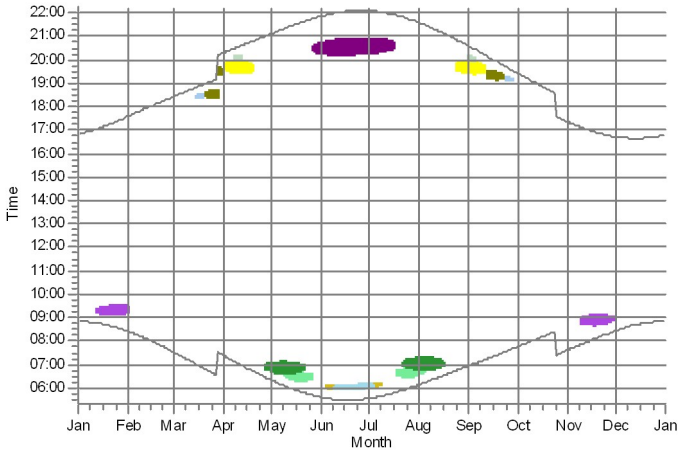
10: Arbedkaai 3, 9042 Gent



11: Schuitstraat 1, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

KLZ_WT21: KLZ_WT21 Armasteel
KLZ_WT22: KLZ_WT22 Magelaanstraat
KLZ_WT23: KLZ_WT23 Stukwerkers
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

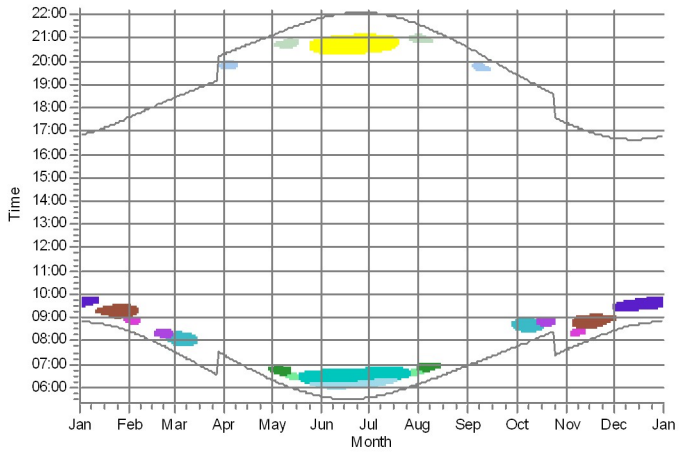
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

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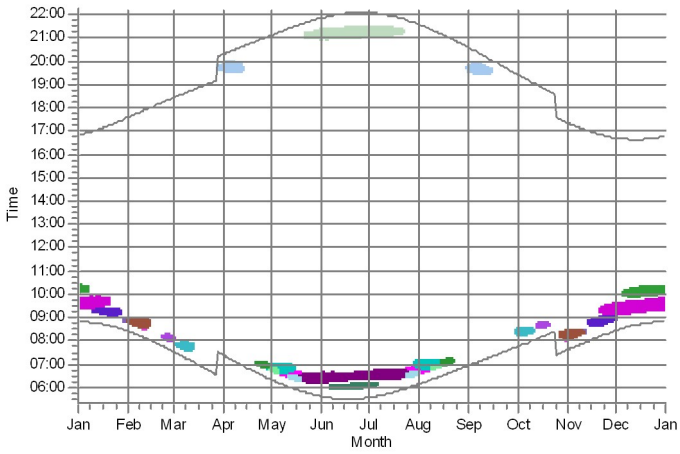
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

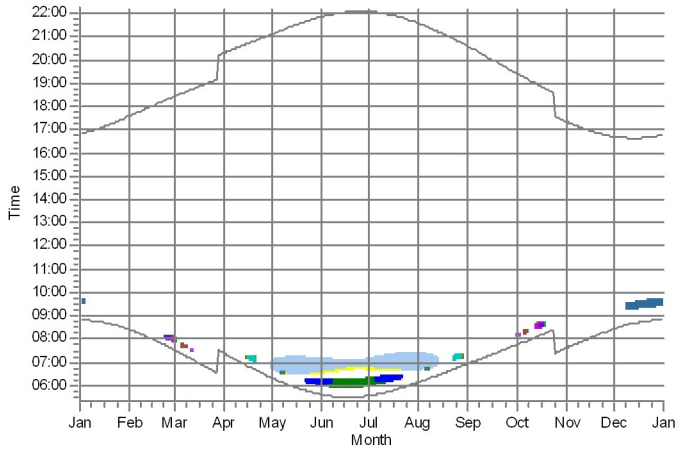
13: Doornzele Dries 107, 9940 Evergem



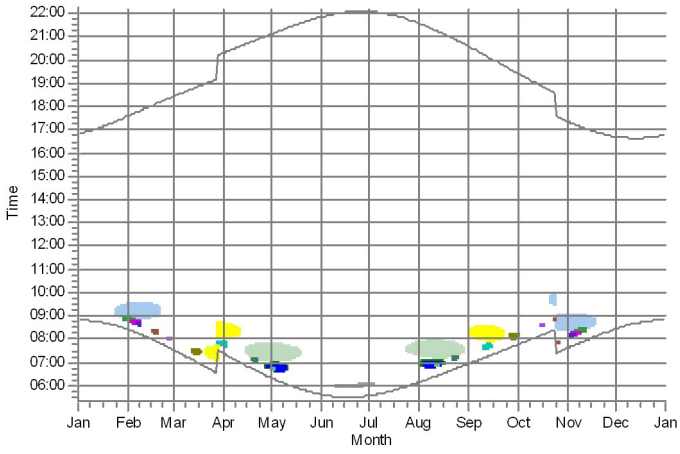
14: Abdijdreef 2, 9940 Evergem



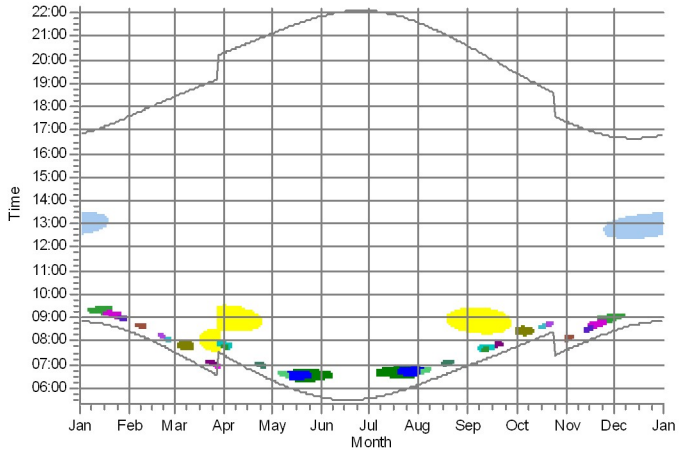
15: Hageland 41, 9940 Evergem



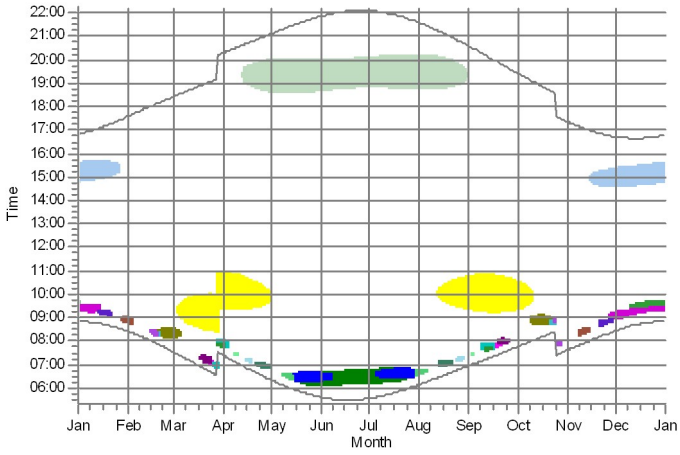
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT22: KLZ_WT22 Magelaanstraat
- KLZ_WT23: KLZ_WT23 Stukwerkers
- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
- MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January		February	March		April		May		June	
1	08:50	14:26-15:14/48	08:24	07:32		07:23	17:59-18:52/53	06:20	06:44-08:09/85	05:36	06:04-06:39/35 17:38-19:14/96
	16:48		17:35	18:25		20:17	07:53-08:17/24	21:06	17:25-19:16/111	21:51	20:23-20:50/27
2	08:50	14:27-15:14/47	08:23	07:30		07:21	17:56-18:54/58	06:18	06:42-08:08/86	05:36	06:04-06:39/35 17:40-19:14/94
	16:49		17:36	18:26		20:19	07:52-08:16/24	21:08	17:25-19:16/111	21:52	20:25-20:51/26
3	08:49	14:28-15:13/45	08:21	07:28		07:19	17:54-18:57/63	06:16	06:41-08:08/87	05:35	06:03-06:38/35 17:40-19:14/94
	16:50		17:38	18:28		20:20	07:52-08:15/23	21:09	17:25-19:16/111	21:53	20:25-20:50/25
4	08:49	14:28-15:13/45	08:19	07:26		07:17	17:51-18:59/68	06:15	06:39-08:06/87	05:34	06:03-06:38/35 17:40-19:13/93
	16:51		17:40	18:30		20:22	07:53-08:14/21	21:11	17:26-19:16/110	21:54	20:25-20:50/25
5	08:49	14:29-15:13/44	08:18	07:24		07:14	17:49-19:01/72	06:13	06:38-06:55/17 17:25-19:16/111	05:33	06:02-06:39/37 17:41-19:14/93
	16:52		17:42	18:32		20:24	07:54-08:13/19	21:13	20:30-20:41/11 06:56-08:05/69	21:55	20:26-20:50/24
6	08:49	14:29-15:13/44	08:16	07:21		07:12	17:46-19:01/75	06:11	06:39-06:55/16 17:25-19:16/111 06:57-07:26/29	05:33	06:02-06:39/37 17:41-19:13/92
	16:54		17:44	18:33		20:25	07:55-08:10/15	21:14	20:27-20:43/16 07:27-08:05/38	21:56	20:26-20:49/23
7	08:48	14:30-15:14/44	08:15	07:19		07:10	17:45-19:03/78 07:57-08:07/10	06:09	06:39-06:54/15 17:26-19:16/110 06:57-07:25/28	05:32	06:01-06:39/38 17:42-19:14/92
	16:55		17:45	18:35		20:27	07:51-07:54/3	21:16	20:26-20:46/20 07:28-08:03/35	21:56	20:28-20:49/21
8	08:48	14:30-15:13/43	08:13	07:17		07:08	17:43-19:05/82	06:08	06:39-06:53/14 17:26-19:16/110 06:57-07:24/27	05:32	06:01-06:40/39 17:42-19:13/91
	16:56		17:47	18:37		20:29	07:44-08:01/17	21:17	20:24-20:47/23 07:28-08:01/33	21:57	20:28-20:48/20
9	08:47	14:31-15:14/43	08:11	07:15		07:05	17:41-19:06/85	06:06	06:31-06:35/4 20:23-20:48/25 07:30-08:00/30	05:31	06:00-06:39/39 17:43-19:14/91
	16:58		17:49	18:39		20:30	07:41-08:04/23	21:19	06:41-06:52/11 17:27-19:16/109 06:58-07:23/25	21:58	20:29-20:48/19
10	08:47	14:32-15:14/42	08:09	07:13		07:03	17:40-19:07/87	06:04	06:29-06:37/8 20:22-20:49/27 07:31-07:58/27	05:31	06:00-06:40/40 17:44-19:14/90
	16:59		17:51	18:40		20:32	07:38-08:06/28	21:21	06:42-06:49/7 17:27-19:16/109 06:59-07:22/23	21:59	20:30-20:48/18
11	08:46	14:32-15:14/42	08:08	07:10		07:01	17:39-19:08/89	06:03	06:28-06:39/11 17:28-19:16/108 07:00-07:21/21	05:31	06:00-06:40/40 17:45-19:14/89
	17:00		17:53	18:42		20:33	07:36-08:08/32	21:22	20:22-20:50/28 07:33-07:57/24	22:00	20:30-20:47/17
12	08:46	14:34-15:14/40	08:06	07:08		06:59	17:37-19:08/91	06:01	06:26-06:39/13 17:27-19:16/109 07:01-07:19/18	05:30	06:00-06:40/40 17:44-19:14/90
	17:02		17:54	18:44		20:35	07:33-08:08/35	21:24	20:21-20:50/29 07:34-07:55/21	22:00	20:31-20:47/16
13	08:45	14:35-15:14/39	08:04	07:06		06:57	17:35-19:09/94	05:59	06:25-06:40/15 17:28-19:16/108 07:03-07:17/14	05:30	05:59-06:40/41 17:45-19:14/89
	17:03		17:56	18:45		20:37	07:32-08:09/37	21:25	20:21-20:51/30 07:37-07:53/16	22:01	20:31-20:47/16
14	08:44	14:35-15:14/39	08:02	07:04		06:55	17:34-19:10/96	05:58	06:23-06:40/17 17:28-19:15/107 07:05-07:14/9	05:30	05:59-06:40/41 17:45-19:14/89
	17:05		17:58	18:47		20:38	07:30-08:10/40	21:27	20:20-20:51/31 07:41-07:48/7	22:02	20:32-20:47/15
15	08:44	14:36-15:14/38	08:00	07:02		06:52	17:33-19:11/98	05:56	06:22-06:41/19 17:29-19:16/107	05:30	05:59-06:40/41 17:46-19:14/88
	17:06		18:00	18:49		20:40	07:29-08:11/42	21:28	20:20-20:51/31	22:02	20:33-20:47/14
16	08:43	14:37-15:13/36	07:58	06:59		06:50	17:32-19:12/100	05:55	06:21-06:42/21 17:30-19:16/106	05:30	05:59-06:41/42 17:46-19:14/88
	17:08		18:02	18:50		20:42	07:28-08:12/44	21:30	20:20-20:52/32	22:03	20:33-20:47/14
17	08:42	14:39-15:13/34	07:56	06:57		06:48	17:31-19:12/101	05:53	06:19-06:42/23 17:29-19:15/106	05:29	05:59-06:41/42 17:47-19:15/88
	17:09		18:03	18:52		20:43	07:27-08:12/45	21:31	20:19-20:52/33	22:03	20:34-20:47/13
18	08:41	14:40-15:13/33	07:55	06:55		06:46	17:31-19:13/102	05:52	06:18-06:42/24 17:30-19:15/105	05:29	05:59-06:41/42 17:47-19:15/88
	17:11		18:05	18:54		20:45	07:26-08:13/47	21:33	20:19-20:52/33	22:03	20:34-20:47/13
19	08:40	14:42-15:12/30	07:53	06:53		06:44	20:18-20:20/2 07:26-08:13/47	05:51	06:17-06:42/25 17:31-19:15/104	05:29	05:59-06:41/42 17:47-19:15/88
	17:12		18:07	18:55		20:47	17:30-19:13/103 07:10-07:19/9	21:34	20:19-20:52/33	22:04	20:35-20:47/12
20	08:39	14:43-15:11/28	07:51	06:50		06:42	20:17-20:22/5 07:25-08:13/48	05:49	06:16-06:43/27 17:32-19:16/104	05:30	05:59-06:41/42 17:47-19:15/88
	17:14		18:09	18:57		20:48	17:29-19:14/105 07:06-07:22/16	21:35	20:20-20:53/33	22:04	20:35-20:47/12
21	08:38	14:44-15:09/25	07:49	06:48		06:40	20:16-20:23/7 07:25-08:13/48	05:48	06:15-06:43/28 17:31-19:15/104	05:30	06:00-06:41/41 17:47-19:15/88
	17:16		18:11	18:59		20:50	17:29-19:14/105 07:04-07:24/20	21:37	20:19-20:52/33	22:04	20:35-20:47/12
22	08:37	14:47-15:08/21	07:47	06:46		06:38	20:16-20:25/9 07:02-08:13/71	05:47	06:13-06:42/29 17:32-19:15/103	05:30	06:00-06:42/42 17:48-19:16/88
	17:17		18:12	19:00		20:52	17:28-19:15/107	21:38	20:19-20:52/33	22:05	20:36-20:48/12
23	08:36	14:50-15:07/17	07:45	06:44	07:06-07:10/4	06:36	20:16-20:26/10 07:01-08:13/72	05:46	06:12-06:42/30 17:33-19:15/102	05:30	06:00-06:42/42 17:48-19:16/88
	17:19		18:14	19:02		20:53	17:27-19:15/108	21:39	20:19-20:52/33	22:05	20:36-20:48/12
24	08:35	14:53-15:03/10	07:43	06:41	07:04-07:14/10	06:34	20:16-20:28/12 06:59-08:12/73	05:44	06:11-06:42/31 17:34-19:14/100	05:30	06:00-06:42/42 17:48-19:16/88
	17:21		18:16	19:04		20:55	17:27-19:15/108	21:41	20:20-20:52/32	22:05	20:35-20:48/13
25	08:34		07:41	06:39	07:01-07:15/14	06:32	20:16-20:28/12 06:58-08:12/74	05:43	06:10-06:41/31 17:34-19:14/100	05:31	06:01-06:43/42 17:49-19:17/88
	17:22		18:18	19:05		20:56	17:26-19:15/109	21:42	20:20-20:52/32	22:05	20:36-20:49/13
26	08:32		07:38	06:37	06:59-07:16/17	06:30	20:17-20:27/10 06:57-08:12/75	05:42	06:10-06:41/31 17:35-19:14/99	05:31	06:01-06:43/42 17:48-19:17/89
	17:24		18:19	19:07		20:58	17:26-19:15/109	21:43	20:20-20:52/32	22:05	20:36-20:49/13
27	08:31		07:36	06:34	06:57-07:17/20	06:28	06:51-06:52/1 17:26-19:15/109	05:41	06:10-06:41/31 17:35-19:14/99	05:32	06:02-06:43/41 17:48-19:16/88
	17:26		18:21	19:09		21:00	20:19-20:25/6 06:56-08:11/75	21:45	20:21-20:51/30	22:05	20:35-20:49/14
28	08:30		07:34	06:32	17:22-17:32/10	06:26	06:50-06:54/4 06:57-08:10/73	05:40	06:08-06:41/33 17:36-19:14/98	05:32	06:02-06:43/41 17:49-19:17/88
	17:28		18:23	19:10	06:55-07:18/23	21:01	17:25-19:15/110	21:46	20:21-20:51/30	22:05	20:35-20:50/15
29	08:28			07:30	18:13-18:41/28	06:24	06:48-06:55/7 06:56-08:11/75	05:39	06:07-06:41/34 17:37-19:15/98	05:33	06:03-06:44/41 17:48-19:17/89
	17:29			20:12	07:53-08:17/24	21:03	17:26-19:16/110	21:47	20:21-20:51/30	22:05	20:35-20:50/15
30	08:27			07:28	18:07-18:46/39	06:22	06:46-06:55/9 06:56-08:10/74	05:38	06:06-06:40/34 17:38-19:14/96	05:33	06:03-06:44/41 17:48-19:18/90
	17:31			20:14	07:53-08:17/24	21:05	17:26-19:16/110	21:48	20:23-20:51/28	22:04	20:35-20:51/16
31	08:25			07:25	18:03-18:50/47			05:37	06:05-06:39/34 17:38-19:14/96		
	17:33			20:15	07:53-08:17/24			21:49	20:23-20:51/28		
Potential sun hours	262		279	367		415		482		495	
Sum of minutes with flicker	877		0	284		4258		5510		4398	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:44/40 17:49-19:18/89	06:09 06:37-06:49/12 17:38-19:26/108 07:11-07:30/19	06:57 17:38-19:07/89	07:44	07:37	08:26 14:14-14:56/42
	22:04 20:35-20:52/17	21:34 20:31-21:00/29 07:44-08:06/22	20:33 07:35-08:07/32	19:25	17:21	16:42
2	05:34 06:04-06:44/40 17:48-19:18/90	06:11 06:39-06:49/10 20:31-20:59/28 07:43-08:08/25	06:59 17:38-19:05/87	07:46	07:38	08:27 14:15-14:57/42
	22:04 20:34-20:52/18	21:32 06:55-06:58/3 17:38-19:27/109 07:10-07:32/22	20:31 07:36-08:04/28	19:23	17:19	16:41
3	05:35 06:05-06:44/39 17:48-19:19/91	06:12 06:40-06:47/7 20:33-20:59/26 07:41-08:10/29	07:00 17:39-19:04/85	07:48	07:40	08:29 14:15-14:57/42
	22:04 20:34-20:53/19	21:30 06:52-07:01/9 17:37-19:26/109 07:09-07:33/24	20:29 07:39-08:02/23	19:21	17:17	16:41
4	05:36 06:06-06:45/39 17:48-19:19/91	06:14 06:41-06:44/3 20:33-20:57/24 07:39-08:10/31	07:02 17:40-19:02/82	07:49	07:42	08:30 14:15-14:58/43
	22:03 20:34-20:54/20	21:29 06:51-07:03/12 17:36-19:26/110 07:08-07:33/25	20:27 07:41-07:58/17	19:19	17:16	16:40
5	05:37 06:07-06:45/38 17:48-19:19/91	06:15 06:49-07:03/14 17:36-19:26/110 07:07-07:34/27	07:03 17:42-19:00/78 07:54-08:04/10	07:51	07:43	08:31 14:15-14:59/44
	22:03 20:33-20:54/21	21:27 20:35-20:57/22 07:38-08:12/34	20:24 07:48-07:52/4	19:16	17:14	16:40
6	05:37 06:07-06:45/38 17:48-19:20/92	06:17 06:48-07:04/16 17:36-19:26/110 07:06-07:35/29	07:05 17:42-18:58/76	07:53	07:45	08:33 14:15-14:59/44
	22:02 20:33-20:55/22	21:25 20:36-20:55/19 07:37-08:13/36	20:22 07:51-08:06/15	19:14	17:12	16:39
7	05:38 06:08-06:45/37 17:48-19:20/92	06:18 06:48-07:05/17 17:36-19:26/110	07:06 17:44-18:56/72	07:54	07:47	08:34 14:16-15:00/44
	22:02 20:33-20:56/23	21:24 20:38-20:53/15 07:06-08:14/68	20:20 07:49-08:08/19	19:12	17:11	16:39
8	05:39 06:09-06:46/37 17:47-19:21/94	06:20 06:47-08:15/88 17:35-19:26/111	07:08 17:45-18:53/68	07:56	07:49	08:35 14:16-15:01/45
	22:01 20:33-20:57/24	21:22 20:40-20:50/10	20:18 07:47-08:08/21	19:10	17:09	16:39
9	05:40 06:10-06:46/36 17:47-19:21/94	06:21 06:49-08:16/87	07:10 17:48-18:51/63	07:57	07:50	08:36 14:16-15:01/45
	22:00 20:32-20:57/25	21:20 17:34-19:25/111	20:15 07:47-08:09/22	19:08	17:07	16:38
10	05:41 06:11-06:46/35 17:47-19:22/95	06:23 06:50-08:16/86	07:11 17:49-18:48/59	07:59	07:52	08:37 14:16-15:03/47
	22:00 20:32-20:58/26	21:18 17:34-19:25/111	20:13 07:45-08:09/24	19:05	17:06	16:38
11	05:42 06:12-06:47/35 17:47-19:22/95	06:24 06:52-08:17/85	07:13 17:52-18:45/53	08:01	07:54	08:38 14:16-15:04/48
	21:59 20:32-20:59/27	21:16 17:34-19:24/110	20:11 07:45-08:09/24	19:03	17:04	16:38
12	05:43 06:13-06:47/34 17:47-19:22/95	06:26 06:53-08:18/85	07:14 17:54-18:41/47	08:02	07:56	08:39 14:16-15:05/49
	21:58 20:32-20:59/27	21:14 17:34-19:25/111	20:09 07:44-08:09/25	19:01	17:03	16:38
13	05:44 06:14-06:48/34 17:46-19:23/97	06:27 06:54-08:17/83	07:16 17:58-18:38/40	08:04	07:57	08:40 14:17-15:06/49
	21:57 20:31-21:00/29	21:13 17:33-19:24/111	20:06 07:44-08:09/25	18:59	17:01	16:38
14	05:45 06:15-06:49/34 17:46-19:23/97	06:29 06:56-07:02/6 07:04-08:18/74	07:17 18:02-18:32/30	08:06	07:59	08:41 14:17-15:07/50
	21:56 20:31-21:00/29	21:11 17:34-19:24/110	20:04 07:43-08:08/25	18:57	17:00	16:38
15	05:46 06:19-06:50/31 20:31-21:00/29	06:30 06:57-07:00/3 07:03-08:18/75	07:19 18:10-18:25/15	08:07	08:01	08:42 14:18-15:07/49
	21:55 06:16-06:18/2 17:45-19:23/98	21:09 17:33-19:23/110	20:02 07:44-08:07/23	18:55	16:59	16:38
16	05:48 06:19-06:50/31 17:45-19:23/98	06:32 20:26-20:33/7 07:04-08:19/75	07:21 07:45-08:06/21	08:09	08:02	08:43 14:18-15:08/50
	21:55 20:30-21:01/31	21:07 17:33-19:23/110	20:00	18:52	16:57	16:38
17	05:49 06:19-06:51/32 17:44-19:24/100	06:34 20:24-20:34/10 07:04-08:18/74	07:22 07:47-08:05/18	08:11	08:04	08:44 14:19-15:09/50
	21:54 20:30-21:01/31	21:05 17:33-19:22/109	19:57	18:50	16:56	16:38
18	05:50 06:20-06:51/31 17:44-19:24/100	06:35 20:23-20:35/12 07:05-08:19/74	07:24 07:49-08:04/15	08:12	08:06 14:27-14:37/10	08:45 14:19-15:09/50
	21:52 20:30-21:01/31	21:03 17:33-19:22/109	19:55	18:48	16:55	16:39
19	05:51 06:20-06:51/31 17:43-19:24/101	06:37 20:21-20:33/12 07:05-08:18/73	07:25 07:50-08:01/11	08:14	08:07 14:24-14:41/17	08:45 14:19-15:10/51
	21:51 20:29-21:01/32	21:01 17:33-19:21/108	19:53	18:46	16:53	16:39
20	05:52 06:22-06:52/30 17:43-19:24/101	06:38 20:21-20:32/11 07:06-08:18/72	07:27 07:52-07:58/6	08:16	08:09 14:22-14:43/21	08:46 14:20-15:11/51
	21:50 20:29-21:01/32	20:59 17:33-19:20/107	19:50	18:44	16:52	16:39
21	05:54 06:23-06:52/29 17:43-19:25/102	06:40 20:20-20:29/9 07:07-08:18/71	07:28	08:18	08:11 14:20-14:45/25	08:47 14:20-15:11/51
	21:49 20:30-21:02/32	20:57 17:33-19:19/106	19:48	18:42	16:51	16:40
22	05:55 06:24-06:52/28 17:42-19:25/103	06:41 20:21-20:28/7 07:29-08:18/49	07:30	08:19	08:12 14:19-14:47/28	08:47 14:21-15:12/51
	21:48 20:30-21:02/32	20:55 17:33-19:19/106 07:09-07:28/19	19:46	18:40	16:50	16:40
23	05:56 06:25-06:52/27 17:42-19:25/103	06:43 20:20-20:25/5 07:29-08:17/48	07:32	08:21	08:14 14:18-14:48/30	08:48 14:21-15:12/51
	21:47 20:29-21:02/33	20:53 17:33-19:18/105 07:10-07:25/15	19:44	18:38	16:49	16:41
24	05:58 06:27-06:53/26 17:41-19:25/104	06:44 20:22-20:24/2 07:30-08:17/47	07:33	08:23	08:16 14:17-14:50/33	08:48 14:21-15:12/51
	21:45 20:29-21:02/33	20:50 17:34-19:17/103 07:14-07:22/8	19:41	18:36	16:48	16:41
25	05:59 06:28-06:53/25 17:41-19:26/105	06:46 17:33-19:16/103	07:35	07:24	08:17 14:17-14:51/34	08:48 14:23-15:13/50
	21:44 20:30-21:03/33	20:48 07:29-08:15/46	19:39	17:34	16:47	16:42
26	06:00 06:29-06:52/23 17:40-19:26/106	06:48 17:34-19:15/101	07:36	07:26	08:19 14:16-14:51/35	08:49 14:23-15:13/50
	21:43 20:30-21:02/32	20:46 07:30-08:15/45	19:37	17:32	16:46	16:43
27	06:02 06:30-06:52/22 17:40-19:26/106	06:49 17:34-19:14/100	07:38	07:28	08:20 14:15-14:53/38	08:49 14:23-15:13/50
	21:41 20:29-21:02/33	20:44 07:30-08:14/44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:52/20 17:40-19:26/106	06:51 17:35-19:13/98	07:40	07:30	08:22 14:16-14:54/38	08:49 14:24-15:13/49
	21:40 20:30-21:02/32	20:42 07:31-08:13/42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:52/19 17:39-19:26/107	06:52 17:35-19:11/96	07:41	07:31	08:23 14:15-14:54/39	08:49 14:24-15:13/49
	21:38 20:30-21:02/32 07:19-07:22/3	20:40 07:31-08:11/40	19:30	17:26	16:43	16:45
30	06:06 06:35-06:52/17 17:38-19:26/108 07:15-07:26/11	06:54 17:36-19:10/94	07:43	07:33	08:25 14:15-14:55/40	08:49 14:25-15:14/49
	21:37 20:30-21:01/31 07:49-08:00/11	20:38 07:33-08:10/37	19:28	17:25	16:43	16:46
31	06:08 06:36-06:51/15 17:38-19:27/109 07:13-07:29/16	06:56 17:36-19:08/92		07:35		08:50 14:25-15:14/49
	21:35 20:31-21:01/30 07:47-08:04/17	20:35 07:33-08:08/35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	4939	5626	1352	0	388	1485

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT22 - KLZ_WT22 Magelaanstraat

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:35-15:47/12 10:34-11:26/52	08:24 16:32-16:56/24	07:32	07:23 08:08-10:54/166	06:20	05:36 06:34-06:59/25
	16:48 13:03-13:52/49 09:54-10:30/36	17:35 10:39-11:41/62	18:25	20:17	21:06	21:51 20:24-20:53/29
2	08:50 15:36-15:47/11 10:34-11:27/53	08:23 16:31-16:56/25	07:30	07:21 08:07-10:53/166	06:18	05:36 06:35-06:59/24
	16:49 13:04-13:52/48 09:54-10:31/37	17:36 10:39-11:41/62	18:27	20:19 19:39-19:46/7	21:08	21:52 20:25-20:54/29
3	08:49 15:38-15:47/9 10:34-11:28/54	08:21 16:31-16:57/26	07:28	07:19 08:07-10:52/165	06:17	05:35 06:36-06:58/22
	16:50 13:05-13:53/48 09:55-10:32/37	17:38 10:39-11:40/61	18:28	20:20 19:36-19:49/13	21:09	21:53 20:24-20:55/31
4	08:49 15:39-15:46/7 10:34-11:28/54	08:19 16:31-16:58/27	07:26 09:14-09:26/12	07:17 08:08-10:52/164	06:15	05:34 06:37-06:59/22
	16:51 13:05-13:52/47 09:54-10:31/37	17:40 10:40-11:40/60	18:30	20:22 19:34-19:51/17	21:11	21:54 20:23-20:55/32
5	08:49 15:41-15:46/5 10:34-11:29/55	08:18 16:31-16:57/26	07:24 09:06-09:32/26	07:14 08:08-10:51/163	06:13	05:34 06:37-06:58/21
	16:53 13:06-13:53/47 09:55-10:32/37	17:42 10:41-11:39/58	18:32	20:24 19:32-19:53/21	21:13	21:55 20:23-20:56/33
6	08:49 13:06-13:52/46 09:55-10:32/37	08:16 16:31-16:57/26	07:21 09:02-09:37/35	07:12 08:09-10:49/160	06:11	05:33 06:38-06:58/20
	16:54 10:34-11:29/55	17:44 10:41-11:39/58	18:33	20:25 19:30-19:53/23	21:14	21:56 20:22-20:57/35
7	08:48 13:08-13:53/45 09:56-10:33/37	08:15 16:31-16:57/26	07:19 08:58-09:40/42	07:10 08:09-10:49/160	06:09 06:44-06:49/5	05:32 06:38-06:57/19
	16:55 10:35-11:30/55	17:45 10:41-11:38/57	18:35	20:27 19:29-19:53/24	21:16	21:56 20:23-20:58/35
8	08:48 13:08-13:53/45 09:56-10:33/37	08:13 16:33-16:57/24	07:17 08:56-09:43/47	07:08 08:10-10:48/158	06:08 06:40-06:52/12	05:32 06:39-06:57/18
	16:56 10:34-11:31/57	17:47 10:43-11:38/55	18:37 18:07-18:12/5	20:29 19:28-19:54/26	21:17	21:57 20:23-20:59/36
9	08:48 13:09-13:53/44 09:57-10:34/37	08:11 16:33-16:57/24	07:15 08:53-09:45/52	07:06 09:25-10:47/82 08:12-08:28/16	06:06 06:38-06:54/16	05:31 06:39-06:56/17
	16:58 10:35-11:32/57	17:49 10:44-11:37/53	18:39 18:03-18:13/10	20:30 08:29-09:23/54 19:28-19:54/26	21:19	21:58 20:22-20:59/37
10	08:47 13:10-13:53/43 09:57-10:34/37	08:09 16:34-16:56/22	07:13 08:50-09:46/56	07:03 09:25-10:46/81 08:15-08:25/10	06:04 06:36-06:55/19	05:31 06:40-06:56/16
	16:59 10:35-11:32/57	17:51 10:45-11:35/50	18:40 18:02-18:15/13	20:32 08:29-09:23/54 19:28-19:54/26	21:21	21:59 20:22-20:59/37
11	08:46 13:11-13:52/41	08:08 16:35-16:55/20	07:11 08:48-09:48/60	07:01 09:25-10:44/79 19:28-19:54/26	06:03 06:35-06:57/22	05:31 06:41-06:56/15
	17:00 09:57-11:33/96	17:53 10:46-11:34/48	18:42 18:01-18:17/16	20:34 08:30-09:22/52	21:22	22:00 20:22-21:00/38
12	08:46 13:12-13:53/41	08:06 16:36-16:54/18	07:08 08:46-09:50/64	06:59 09:25-10:42/77 19:27-19:53/26	06:01 06:34-06:57/23	05:30 06:42-06:56/14
	17:02 09:58-11:34/96	17:55 10:47-11:32/45	18:44 18:00-18:18/18	20:35 08:29-09:20/51	21:24	22:00 20:22-21:00/38
13	08:45 13:13-13:53/40	08:04 16:38-16:52/14	07:06 08:45-09:51/66	06:57 09:25-10:41/76 19:27-19:52/25	06:00 06:34-06:58/24	05:30 06:42-06:55/13
	17:03 09:58-11:35/97	17:56 10:48-11:30/42	18:45 17:59-18:17/18	20:37 08:29-09:19/50	21:25	22:01 20:22-21:00/38
14	08:44 13:14-13:52/38	08:02 16:41-16:49/8	07:04 08:42-09:51/69	06:55 09:25-10:40/75 19:27-19:51/24	05:58 06:32-06:58/26	05:30 06:43-06:55/12
	17:05 09:59-11:35/96	17:58 10:50-11:28/38	18:47 17:59-18:17/18	20:38 08:30-09:17/47	21:27	22:02 20:22-21:01/39
15	08:44 13:16-13:51/35	08:00 10:52-11:26/34	07:02 08:41-09:53/72	06:53 09:26-10:38/72 19:28-19:50/22	05:56 06:32-06:59/27	05:30 06:43-06:55/12
	17:06 09:59-11:36/97	18:00	18:49 17:59-18:17/18	20:40 08:31-09:16/45	21:28	22:02 20:22-21:01/39
16	08:43 13:17-13:51/34	07:58 10:54-11:23/29	06:59 08:40-09:54/74	06:50 09:26-10:36/70 19:29-19:49/20	05:55 06:32-07:00/28	05:30 06:44-06:55/11
	17:08 09:59-11:36/97	18:02	18:50 18:00-18:17/17	20:42 08:32-09:15/43	21:30	22:03 20:22-21:02/40
17	08:42 13:19-13:50/31	07:57 10:57-11:18/21	06:57 08:39-09:55/76	06:48 09:27-10:35/68 19:30-19:48/18	05:54 06:31-07:00/29	05:30 06:45-06:55/10
	17:09 10:00-11:37/97	18:04	18:52 18:00-18:15/15	20:43 08:33-09:13/40	21:31	22:03 20:22-21:02/40
18	08:41 13:20-13:49/29	07:55 11:04-11:11/7	06:55 08:36-09:54/78 18:01-18:13/12	06:46 09:28-10:33/65 19:32-19:46/14	05:52 06:31-07:00/29	05:30 06:45-06:54/9
	17:11 10:01-11:38/97	18:05	18:54 07:55-08:13/18	20:45 08:34-09:11/37	21:33	22:03 20:22-21:02/40
19	08:40 13:23-13:48/25	07:53	06:53 08:36-09:55/79 18:04-18:10/6	06:44 09:29-10:31/62 19:35-19:43/8	05:51 06:31-07:00/29	05:30 06:45-06:54/9
	17:12 10:01-11:38/97	18:07	18:55 07:51-08:16/25	20:47 08:35-09:09/34	21:34	22:04 20:23-21:02/39
20	08:39 13:25-13:46/21	07:51	06:50 08:35-09:56/81	06:42 09:29-10:29/60	05:49 06:32-07:01/29	05:30 06:46-06:54/8
	17:14 10:02-11:39/97	18:09	18:57 07:49-08:19/30	20:48 08:37-09:07/30	21:35	22:04 20:23-21:03/40
21	08:38 13:28-13:43/15	07:49	06:48 08:33-09:56/83 18:31-18:33/2	06:40 09:30-10:27/57	05:48 06:32-07:01/29	05:30 06:47-06:55/8
	17:16 10:02-11:39/97	18:11	18:59 07:45-08:20/35	20:50 08:38-09:04/26	21:37	22:04 20:23-21:03/40
22	08:37 10:03-11:39/96	07:47	06:46 08:32-09:56/84 07:20-07:33/13	06:38 09:31-10:25/54	05:47 06:31-07:00/29	05:30 06:47-06:55/8
	17:17	18:12	19:00 07:43-08:22/39 18:30-18:35/5	20:52 08:41-09:01/20	21:38	22:05 20:24-21:04/40
23	08:36 10:36-11:40/64	07:45	06:44 08:32-09:56/84 07:17-07:35/18	06:36 09:32-10:22/50	05:46 06:31-07:00/29	05:30 06:47-06:55/8
	17:19 10:04-10:35/31	18:14	19:02 07:42-08:24/42 18:31-18:37/6	20:53 08:45-08:56/11	21:40	22:05 20:24-21:04/40
24	08:35 10:37-11:41/64	07:43	06:41 08:31-09:57/86 07:15-07:37/22	06:34 09:34-10:20/46	05:44 06:31-07:00/29	05:31 06:46-06:55/9
	17:21 10:06-10:35/29	18:16	19:04 07:40-08:25/45 18:30-18:38/8	20:55	21:41	22:05 20:23-21:03/40
25	08:34 16:37-16:46/9 10:06-10:34/28	07:41	06:39 08:29-09:56/87 18:32-18:38/6	06:32 09:35-10:17/42	05:43 06:32-07:00/28	05:31 06:47-06:56/9
	17:22 10:36-11:40/64	18:18	19:05 07:13-08:25/72	20:57	21:42	22:05 20:24-21:04/40
26	08:32 16:36-16:49/13 10:08-10:33/25	07:38	06:37 08:29-09:56/87	06:30 09:37-10:14/37	05:42 06:32-07:00/28	05:31 06:46-06:57/11
	17:24 10:37-11:41/64	18:20	19:07 07:12-08:26/74	20:58	21:43 20:32-20:44/12	22:05 20:24-21:04/40
27	08:31 16:34-16:50/16 10:09-10:32/23	07:36	06:35 08:29-09:56/87	06:28 09:39-10:11/32	05:41 06:32-07:00/28	05:32 06:47-06:58/11
	17:26 10:36-11:40/64	18:21	19:09 07:11-08:27/76	21:00	21:45 20:30-20:46/16	22:05 20:24-21:04/40
28	08:30 16:34-16:52/18 10:11-10:31/20	07:34	06:32 08:28-09:56/88	06:26 09:42-10:08/26	05:40 06:33-07:00/27	05:32 06:46-06:58/12
	17:28 10:37-11:41/64	18:23	19:10 07:10-08:27/77	21:01	21:46 20:28-20:48/20	22:05 20:25-21:04/39
29	08:28 16:32-16:53/21 10:13-10:28/15		07:30 08:08-10:55/167	06:24 09:46-10:03/17	05:39 06:34-07:00/26	05:33 06:46-06:59/13
	17:29 10:37-11:41/64		20:12	21:03	21:47 20:28-20:50/22	22:05 20:26-21:05/39
30	08:27 16:32-16:55/23 10:17-10:25/8		07:28 08:08-10:55/167	06:22	05:38 06:34-07:00/26	05:33 06:45-06:59/14
	17:31 10:38-11:41/63		20:14	21:05	21:48 20:27-20:51/24	22:04 20:26-21:04/38
31	08:26 16:31-16:55/24		07:26 08:08-10:55/167		05:37 06:34-06:59/25	
	17:33 10:38-11:41/63		20:15		21:49 20:25-20:52/27	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	3811	1150	2955	3516	743	1541

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT22 - KLZ_WT22 Magelaanstraat

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:46-07:00/14 22:04 20:27-21:04/37	06:09 06:45-07:07/22 21:34	06:57 09:24-10:43/79 19:27-19:53/26 20:33 08:28-09:21/53	07:44 09:24-10:29/65 19:25 18:39-18:57/18	07:37 16:03-16:26/23 17:21 10:14-11:05/51	08:26 12:53-13:34/41 16:42 09:39-11:15/96
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Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	1273	1686	4473	832	3074	4563

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:49-11:38/49 09:34-09:59/25	08:24 10:50-11:58/68	07:32	07:23	06:20 06:44-07:27/43	05:36 06:20-06:34/14 20:49-21:01/12
	16:48 12:35-13:14/39	17:35	18:25	20:17	21:06	21:50 06:04-06:15/11
2	08:49 10:49-11:39/50 09:35-10:00/25	08:22 10:49-11:58/69	07:30	07:21	06:18 06:42-07:27/45	05:36 06:22-06:35/13 20:50-21:00/10
	16:49 12:36-13:15/39	17:36	18:26	20:19	21:08	21:52 06:06-06:16/10
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	17:22 09:43-10:08/25	18:18	19:05	20:56	21:42 06:10-06:15/5	22:05
26	08:32 10:49-11:57/68	07:38	06:37	06:30 06:53-07:28/35	05:42 06:17-06:36/19 20:45-21:03/18	05:31
	17:24 09:44-10:08/24	18:19	19:07	20:58	21:43 06:09-06:15/6	22:05
27	08:31 10:48-11:57/69	07:36	06:34	06:28 06:51-07:28/37	05:41 06:18-06:36/18 20:46-21:03/17	05:32
	17:26 09:45-10:06/21	18:21	19:09	21:00	21:45 06:08-06:16/8	22:05
28	08:30 10:49-11:57/68	07:34	06:32	06:26 06:51-07:28/37	05:40 06:18-06:36/18 20:46-21:03/17	05:32
	17:28 09:47-10:06/19	18:23	19:10	21:01	21:46 06:08-06:16/8	22:05
29	08:28 10:48-11:57/69		07:30	06:24 06:48-06:49/1	05:39 06:19-06:36/17 20:47-21:02/15	05:33
	17:29 09:48-10:04/16		20:12	21:03 06:50-07:28/38	21:47 06:07-06:16/9	22:05
30	08:27 10:49-11:58/69		07:28	06:22 06:46-07:28/42	05:38 06:20-06:36/16 20:48-21:03/15	05:33
	17:31 09:51-10:02/11		20:14	21:05	21:48 06:06-06:16/10	22:04
31	08:25 10:49-11:58/69		07:25		05:37 06:20-06:35/15 20:48-21:02/14	
	17:33		20:15		21:49 06:05-06:16/11	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	3137	1228	0	462	1167	160

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 06:37-06:49/12 21:34	06:57 07:28-07:45/17 20:33	07:44 19:25	07:36 10:22-11:25/63 17:21	08:26 10:31-11:29/58 09:18-09:48/30 16:42 12:27-12:54/27
2	05:34 22:04	06:10 06:39-06:49/10 07:05-07:12/7 21:32 07:23-07:25/2	06:59 07:27-07:45/18 20:31	07:46 19:23	07:38 10:22-11:26/64 17:19	08:27 10:32-11:29/57 09:19-09:48/29 16:41 12:27-12:56/29
3	05:35 22:03	06:12 06:40-06:48/8 07:02-07:14/12 21:30 07:18-07:29/11	07:00 07:27-07:45/18 20:29	07:48 19:21	07:40 10:21-11:26/65 17:17	08:29 10:32-11:28/56 09:20-09:48/28 16:41 12:26-12:57/31
4	05:36 22:03	06:13 06:41-06:46/5 07:16-07:30/14 21:29 06:51-06:57/6 07:01-07:15/14	07:02 07:27-07:43/16 20:27	07:49 19:19	07:42 10:20-11:27/67 17:16	08:30 10:34-11:29/55 09:21-09:49/28 16:40 12:26-12:59/33
5	05:37 06:17-06:18/1 22:03	06:15 06:43-06:45/2 07:00-07:32/32 21:27 06:49-06:58/9	07:03 07:29-07:43/14 20:24	07:51 19:16	07:43 10:20-11:27/67 17:14	08:31 10:34-11:29/55 09:21-09:49/28 16:40 12:25-12:59/34
6	05:37 06:32-06:37/5 22:02 06:14-06:19/5	06:16 06:48-07:33/45 21:25	07:05 07:30-07:41/11 20:22	07:52 19:14	07:45 10:20-11:28/68 17:12	08:33 10:35-11:28/53 09:21-09:48/27 16:39 12:25-13:00/35
7	05:38 06:31-06:38/7 22:02 06:14-06:20/6	06:18 06:47-07:34/47 21:23	07:06 07:32-07:40/8 20:20	07:54 19:12	07:47 10:20-11:28/68 17:11	08:34 10:36-11:29/53 09:23-09:49/26 16:39 12:25-13:02/37
8	05:39 06:30-06:40/10 21:00-21:06/6 22:01 06:14-06:21/7	06:20 06:47-07:35/48 21:22	07:08 07:33-07:35/2 20:18	07:56 19:10	07:49 10:20-11:28/68 17:09	08:35 10:37-11:29/52 09:23-09:49/26 16:39 12:25-13:02/37
9	05:40 06:30-06:41/11 20:59-21:07/8 22:00 06:13-06:22/9	06:21 06:49-07:36/47 21:20	07:10 20:15	07:57 19:08	07:50 10:20-11:29/69 17:07	08:36 10:38-11:29/51 09:23-09:49/26 16:38 12:25-13:03/38
10	05:41 06:29-06:42/13 20:58-21:08/10 22:00 06:13-06:23/10	06:23 06:50-07:36/46 21:18	07:11 20:13	07:59 19:05	07:52 10:20-11:29/69 17:06	08:37 10:38-11:28/50 09:24-09:49/25 16:38 12:25-13:04/39
11	05:42 06:29-06:42/13 20:58-21:09/11 21:59 06:13-06:24/11	06:24 06:52-07:35/43 21:16	07:13 20:11	08:01 19:03	07:54 10:21-11:29/68 17:04 09:27-09:29/2	08:38 10:39-11:28/49 09:24-09:50/26 16:38 12:25-13:04/39
12	05:43 06:29-06:43/14 20:57-21:10/13 21:58 06:13-06:24/11	06:26 06:53-07:36/43 21:14	07:14 20:09	08:02 19:01	07:56 10:20-11:29/69 17:03 09:22-09:33/11	08:39 10:40-11:28/48 09:25-09:50/25 16:38 12:25-13:05/40
13	05:44 06:28-06:44/16 20:57-21:11/14 21:57 06:14-06:24/10	06:27 06:54-07:36/42 21:12	07:16 20:06	08:04 18:59	07:57 10:20-11:29/69 17:01 09:20-09:36/16	08:40 10:40-11:29/49 09:25-09:50/25 16:38 12:25-13:06/41
14	05:45 06:28-06:44/16 20:56-21:11/15 21:56 06:15-06:25/10	06:29 06:58-07:36/38 21:11	07:17 20:04	08:06 18:57	07:59 10:21-11:29/68 17:00 09:19-09:38/19	08:41 10:41-11:29/48 09:26-09:51/25 16:38 12:25-13:06/41
15	05:46 06:28-06:45/17 20:56-21:12/16 21:55 06:16-06:25/9	06:30 06:58-07:35/37 21:09	07:19 20:02	08:07 18:55	08:01 10:21-11:29/68 16:59 09:18-09:39/21	08:42 10:42-11:29/47 09:27-09:51/24 16:38 12:26-13:07/41
16	05:48 06:27-06:45/18 20:55-21:12/17 21:54 06:17-06:25/8	06:32 06:59-07:35/36 21:07	07:21 19:59	08:09 18:52	08:02 10:22-11:30/68 16:57 09:17-09:41/24	08:43 10:43-11:30/47 09:27-09:51/24 16:38 12:26-13:08/42
17	05:49 06:27-06:46/19 20:55-21:13/18 21:53 06:18-06:25/7	06:33 07:00-07:34/34 21:05	07:22 19:57	08:11 18:50	08:04 10:22-11:30/68 16:56 09:17-09:42/25	08:44 10:44-11:30/46 09:28-09:52/24 16:38 12:27-13:09/42
18	05:50 06:27-06:46/19 20:55-21:13/18 21:52 06:19-06:25/6	06:35 07:02-07:34/32 21:03	07:24 19:55	08:12 18:48	08:06 10:22-11:29/67 16:55 09:17-09:43/26	08:45 10:44-11:30/46 09:28-09:52/24 16:39 12:26-13:09/43
19	05:51 06:27-06:46/19 20:54-21:13/19 21:51 06:21-06:26/5	06:37 07:10-07:32/22 21:01	07:25 19:53	08:14 11:47-11:57/10 18:46	08:07 10:22-11:29/67 16:53 09:16-09:43/27	08:45 10:45-11:30/45 09:29-09:53/24 16:39 12:27-13:10/43
20	05:52 06:27-06:47/20 20:54-21:13/19 21:50 06:22-06:25/3	06:38 07:11-07:32/21 20:59	07:27 19:50	08:16 11:41-12:04/23 18:44	08:09 10:23-11:29/66 16:52 09:16-09:44/28	08:46 10:46-11:31/45 09:30-09:53/23 16:39 12:28-13:10/42
21	05:54 06:27-06:47/20 20:55-21:14/19 21:49 06:23-06:24/1	06:40 07:12-07:30/18 20:57	07:28 19:48	08:17 11:37-12:08/31 18:42	08:11 10:24-11:30/66 16:51 09:16-09:45/29	08:47 10:46-11:31/45 09:30-09:53/23 16:40 12:28-13:10/42
22	05:55 06:27-06:48/21 21:48 20:55-21:14/19	06:41 07:14-07:28/14 20:55	07:30 19:46	08:19 11:34-12:11/37 18:40	08:12 10:25-11:30/65 16:50 09:16-09:45/29	08:47 10:47-11:32/45 09:31-09:54/23 16:40 12:29-13:11/42
23	05:56 06:27-06:48/21 21:47 20:55-21:14/19	06:43 07:16-07:25/9 20:52	07:32 19:43	08:21 11:32-12:14/42 18:38	08:14 10:25-11:29/64 16:49 09:15-09:45/30	08:48 10:47-11:32/45 09:31-09:54/23 16:41 12:29-13:11/42
24	05:58 06:28-06:50/22 21:45 20:55-21:13/18	06:44 20:50	07:33 19:41	08:23 11:30-12:16/46 18:36	08:16 10:26-11:29/63 16:48 09:16-09:46/30	08:48 10:47-11:32/45 09:32-09:55/23 16:41 12:29-13:11/42
25	05:59 06:28-06:50/22 21:44 20:56-21:14/18	06:46 20:48	07:35 19:39	07:24 10:29-11:18/49 17:34	08:17 10:27-11:30/63 16:47 09:16-09:47/31	08:48 10:48-11:33/45 09:32-09:56/24 16:42 12:30-13:13/43
26	06:00 06:29-06:50/21 21:42 20:56-21:12/16	06:48 20:46	07:36 19:37	07:26 10:28-11:19/51 17:32	08:19 10:27-11:29/62 16:46 09:16-09:46/30	08:49 10:48-11:34/46 09:32-09:56/24 16:43 12:31-13:13/42
27	06:02 06:30-06:50/20 21:41 20:56-21:11/15	06:49 20:44	07:38 19:34	07:28 10:26-11:20/54 17:30	08:20 10:28-11:29/61 09:17-09:47/30 16:45 12:33-12:46/13	08:49 10:48-11:34/46 09:32-09:56/24 16:43 12:31-13:13/42
28	06:03 06:32-06:51/19 21:40 20:57-21:10/13	06:51 07:33-07:42/9 20:42	07:40 19:32	07:30 10:25-11:21/56 17:28	08:22 10:29-11:29/60 09:18-09:48/30 16:44 12:31-12:49/18	08:49 10:48-11:35/47 09:33-09:57/24 16:44 12:32-13:13/41
29	06:05 06:33-06:50/17 21:38 20:58-21:08/10	06:52 07:31-07:43/12 20:40	07:41 19:30	07:31 10:24-11:23/59 17:26	08:23 10:29-11:29/60 09:17-09:47/30 16:43 12:29-12:51/22	08:49 10:48-11:36/48 09:33-09:57/24 16:45 12:32-13:13/41
30	06:06 06:34-06:51/17 21:37 20:59-21:07/8	06:54 07:30-07:45/15 20:38	07:43 19:28	07:33 10:23-11:24/61 17:25	08:25 10:30-11:29/59 09:18-09:48/30 16:43 12:28-12:53/25	08:49 10:48-11:36/48 09:33-09:58/25 16:46 12:33-13:14/41
31	06:08 06:36-06:50/14 21:35 21:01-21:06/5	06:55 07:28-07:45/17 20:35	 	07:35 10:23-11:25/62 17:23	 	08:50 10:49-11:37/48 09:34-09:59/25 16:47 12:34-13:14/40
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	894	819	104	581	2545	3509

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:37-09:40/3	08:24 08:50-08:54/4	07:32 07:59-08:04/5	07:23	06:20	05:37
	16:48 10:05-10:22/17	17:35	18:25	20:17	21:06	21:50
2	08:49 10:07-10:22/15	08:22 08:48-08:54/6	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 10:07-10:21/14	08:21 08:46-08:53/7	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:08-10:21/13	08:19 08:46-08:53/7	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:10-10:20/10	08:18 17:12-17:13/1	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 10:11-10:19/8	08:16 17:12-17:15/3	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:20/2	08:14 17:13-17:17/4	07:19	07:10	06:09	05:32
	16:55 10:15-10:17/2	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:17-09:21/4	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:16-09:22/6	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:22/7	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:14-09:23/9	08:04	07:06	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:24/11	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:12-09:24/12	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:12-09:24/12	07:56	06:57	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:13-09:23/10	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:15-09:23/8	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:17-09:22/5	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:08/6	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:08/8	06:35	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:06/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:54/1		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	195	61	5	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40	16:45-16:47/2	08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	16:43-16:46/3	08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	16:42-16:44/2	08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12	16:42-16:43/1	16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02		07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:32-08:38/6	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:39/8	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:40/7	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:41/6	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11	08:36-08:39/3	08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12	08:38-08:39/1	08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	31		124		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December	
1	08:49 09:32-09:40/8	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26	
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42	
2	08:49 09:33-09:40/7	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27	
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42	
3	08:49 09:35-09:39/4	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29	
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41	
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30	
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41	
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31	
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40	
6	08:49	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33	
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40	
7	08:48	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34	
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39	
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35	
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39	
9	08:47	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36	09:23-09:27/4
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39	
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37	09:22-09:29/7
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38	
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38	09:22-09:30/8
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38	
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39	09:22-09:31/9
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38	
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40	09:22-09:32/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38	
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41	09:22-09:32/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38	
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42	09:22-09:33/11
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38	
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43	09:23-09:34/11
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38	
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44	09:23-09:35/12
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39	
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44	09:23-09:35/12
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39	
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45	09:24-09:36/12
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39	
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46	09:24-09:37/13
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40	
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46	09:24-09:37/13
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40	
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47	09:25-09:38/13
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40	
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47	09:25-09:38/13
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41	
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48	09:26-09:38/12
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42	
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48	09:27-09:39/12
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42	
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49	09:27-09:39/12
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43	
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49	09:28-09:39/11
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44	
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49	09:28-09:39/11
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44	
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49	09:29-09:39/10
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45	
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49	09:29-09:40/11
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46	
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49	09:30-09:40/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47	
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248	
Sum of minutes with flicker	19	0	0	0	0	0	0	0	0	0	0	247	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 09:22-09:57/35 17:35	07:32 13:53-15:15/82 18:25 07:55-08:08/13	07:23 07:46-08:01/15 14:16-16:35/139 20:17 19:33-19:51/18	06:20 06:44-06:58/14 21:06 15:01-16:20/79	05:36 06:13-06:40/27 21:50
2	08:49 16:49	08:22 09:22-09:56/34 17:36	07:30 13:51-15:17/86 18:26 07:53-08:09/16	07:21 07:43-07:59/16 14:16-16:35/139 20:19 19:32-19:52/20	06:18 06:42-06:58/16 21:08 15:04-16:19/75	05:36 06:14-06:41/27 21:51
3	08:49 16:50	08:21 09:22-09:56/34 17:38	07:28 13:49-15:19/90 18:28 07:51-08:09/18	07:19 07:44-07:57/13 14:16-16:35/139 20:20 19:31-19:52/21	06:16 06:41-07:00/19 21:09 15:06-16:17/71	05:35 06:14-06:40/26 21:53
4	08:49 16:51	08:19 09:23-09:56/33 17:40	07:26 13:47-15:21/94 18:30 07:49-08:09/20	07:16 07:46-07:50/4 14:16-16:35/139 20:22 19:31-19:53/22	06:15 06:40-07:00/20 21:11 15:10-16:17/67	05:34 06:13-06:40/27 21:54
5	08:49 16:52	08:18 09:23-09:55/32 17:42	07:24 13:44-15:21/97 18:32 07:47-08:07/20	07:14 19:30-19:52/22 20:24 14:16-16:35/139	06:13 06:40-06:59/19 21:13 15:13-16:16/63	05:33 06:14-06:41/27 21:55
6	08:49 16:54	08:16 09:24-09:54/30 17:44	07:21 13:43-15:23/100 18:33 07:44-08:07/23	07:12 19:30-19:51/21 20:25 14:16-16:34/138	06:11 06:40-07:00/20 21:14 15:16-16:14/58	05:33 06:14-06:41/27 21:55
7	08:48 16:55	08:14 09:25-09:53/28 17:45	07:19 13:41-15:24/103 18:35 07:43-08:05/22	07:10 19:30-19:51/21 20:27 14:16-16:34/138	06:09 06:40-07:00/20 21:16 15:20-16:13/53	05:32 06:14-06:41/27 21:56
8	08:48 16:56	08:13 09:26-09:53/27 17:47	07:17 13:40-15:26/106 07:45-07:51/6 18:37 07:54-08:04/10	07:08 19:31-19:50/19 20:28 14:16-16:34/138	06:08 06:39-06:59/20 21:17 15:23-16:11/48	05:32 06:15-06:42/27 21:57
9	08:47 16:58	08:11 09:28-09:51/23 17:49	07:15 13:38-15:26/108 18:38	07:05 19:32-19:49/17 20:30 14:17-16:34/137	06:06 06:40-06:59/19 21:19 15:26-16:10/44	05:31 06:15-06:41/26 21:58
10	08:47 16:59	08:09 09:29-09:49/20 17:51	07:13 13:36-15:27/111 18:40	07:03 19:33-19:48/15 20:32 14:17-16:34/137	06:04 06:40-06:58/18 21:20 15:30-16:08/38	05:31 06:15-06:42/27 21:59
11	08:46 09:31-09:35/4 17:00	08:08 09:31-09:47/16 17:53	07:10 13:35-15:28/113 18:42	07:01 19:34-19:45/11 20:33 14:17-16:32/135	06:03 06:41-06:58/17 21:22 15:34-16:07/33	05:31 06:16-06:42/26 21:59
12	08:46 09:28-09:38/10 17:02	08:06 09:34-09:43/9 17:54	07:08 13:34-15:30/116 18:44 07:31-07:35/4	06:59 14:18-16:32/134 20:35	06:01 06:41-06:56/15 21:24 15:38-16:04/26	05:30 06:15-06:41/26 22:00
13	08:45 09:27-09:41/14 17:03	08:04 17:56	07:06 13:32-15:30/118 18:45 07:29-07:36/7	06:57 14:19-16:32/133 20:37	05:59 06:43-06:56/13 21:25 15:43-16:00/17	05:30 06:15-06:42/27 22:01
14	08:44 09:26-09:43/17 17:05	08:02 17:58	07:04 13:31-15:31/120 18:47 07:26-07:36/10	06:55 14:20-16:31/131 20:38	05:58 06:44-06:53/9 21:27	05:30 06:16-06:42/26 22:01
15	08:44 09:25-09:44/19 17:06	08:00 18:00	07:01 13:30-15:31/121 18:49 07:24-07:36/12	06:52 14:21-16:31/130 20:40	05:56 06:47-06:51/4 21:28	05:30 06:16-06:42/26 22:02
16	08:43 09:24-09:46/22 17:08	07:58 18:02	06:59 13:29-15:32/123 18:50 07:22-07:36/14	06:50 14:23-16:31/128 20:42	05:55 21:30	05:29 06:16-06:43/27 22:02
17	08:42 09:23-09:47/24 17:09	07:56 18:03	06:57 13:27-15:32/125 18:52 07:22-07:35/13	06:48 07:11-07:13/2 20:43 14:24-16:30/126	05:53 21:31	05:29 06:17-06:43/26 22:03
18	08:41 09:23-09:48/25 17:11	07:54 18:05	06:55 13:26-15:33/127 18:54 07:22-07:33/11	06:46 07:09-07:13/4 20:45 14:26-16:30/124	05:52 06:24-06:27/3 21:32	05:29 06:17-06:43/26 22:03
19	08:40 09:22-09:50/28 17:12	07:53 18:07	06:53 13:25-15:34/129 18:55 07:23-07:32/9	06:44 07:07-07:12/5 20:47 14:28-16:29/121	05:51 06:21-06:31/10 21:34	05:29 06:17-06:43/26 22:04
20	08:39 09:22-09:51/29 17:14	07:51 18:09	06:50 13:25-15:34/129 18:57	06:42 07:05-07:10/5 20:48 14:30-16:29/119	05:49 06:19-06:33/14 21:35	05:30 06:17-06:43/26 22:04
21	08:38 09:21-09:51/30 17:16	07:49 14:21-14:48/27 18:11	06:48 13:23-15:34/131 18:59	06:40 14:32-16:28/116 20:50	05:48 06:17-06:33/16 21:37	05:30 06:17-06:43/26 22:04
22	08:37 09:21-09:52/31 17:17	07:47 14:15-14:53/38 18:12	06:46 13:22-15:34/132 19:00	06:38 14:34-16:27/113 20:51	05:47 06:16-06:35/19 21:38	05:30 06:18-06:44/26 22:04
23	08:36 09:21-09:53/32 17:19	07:45 14:11-14:58/47 18:14	06:43 13:22-15:35/133 19:02	06:36 14:37-16:27/110 20:53	05:46 06:16-06:36/20 21:39	05:30 06:18-06:44/26 22:05
24	08:35 09:20-09:53/33 17:21	07:42 14:07-15:02/55 18:16	06:41 13:20-15:34/134 19:04	06:34 14:39-16:26/107 20:55	05:44 06:15-06:36/21 21:41	05:30 06:18-06:44/26 22:05
25	08:33 09:20-09:54/34 17:22	07:40 14:04-15:05/61 18:18	06:39 13:20-15:35/135 19:05	06:32 14:42-16:25/103 20:56	05:43 06:15-06:37/22 21:42	05:31 06:19-06:45/26 22:05
26	08:32 09:21-09:55/34 17:24	07:38 14:01-15:08/67 18:19 08:02-08:04/2	06:37 13:19-15:35/136 19:07	06:30 14:45-16:24/99 20:58	05:42 06:14-06:37/23 21:43	05:31 06:19-06:45/26 22:05
27	08:31 09:20-09:55/35 17:26	07:36 13:57-15:10/73 18:21 08:00-08:07/7	06:34 06:57-07:01/4 19:09 13:19-15:36/137	06:28 14:48-16:23/95 21:00	05:41 06:14-06:38/24 21:45	05:32 06:18-06:44/26 22:05
28	08:30 09:21-09:56/35 17:28	07:34 13:55-15:13/78 18:23 07:57-08:07/10	06:32 06:55-07:02/7 19:10 13:18-15:35/137	06:26 14:51-16:22/91 21:01	05:40 06:13-06:38/25 21:46	05:32 06:19-06:45/26 22:05
29	08:28 09:20-09:55/35 17:29		07:30 07:52-08:01/9 14:18-16:35/137 20:12 19:41-19:46/5	06:24 06:48-06:56/8 21:03 14:55-16:22/87	05:39 06:14-06:39/25 21:47	05:33 06:20-06:46/26 22:05
30	08:27 09:21-09:56/35 17:31		07:28 07:50-08:01/11 14:17-16:35/138 20:14 19:37-19:49/12	06:22 06:46-06:57/11 21:05 14:58-16:21/83	05:38 06:14-06:40/26 21:48	05:33 06:19-06:46/27 22:04
31	08:25 09:21-09:56/35 17:33		07:25 07:48-08:01/13 14:17-16:36/139 20:15 19:35-19:50/15		05:37 06:14-06:40/26 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	561	786	3991	3958	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 19:33-19:44/11 20:33 14:17-16:32/135	07:44 14:12-16:09/117 19:25 08:09-08:15/6	07:36 08:58-09:20/22 17:21	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 19:31-19:46/15 20:31 14:15-16:31/136	07:46 14:13-16:08/115 19:23 08:11-08:13/2	07:38 08:57-09:21/24 17:19	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 19:30-19:47/17 20:29 14:15-16:32/137	07:48 14:14-16:06/112 19:21	07:40 08:55-09:22/27 17:17	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 19:28-19:47/19 20:27 14:13-16:31/138	07:49 14:15-16:05/110 19:19	07:42 08:54-09:23/29 17:16	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 19:27-19:48/21 20:24 14:13-16:31/138	07:51 14:16-16:03/107 08:23-08:27/4 19:16 08:32-08:39/7	07:43 08:54-09:24/30 17:14	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 19:26-19:47/21 20:22 14:12-16:30/138	07:52 14:17-16:01/104 08:20-08:28/8 19:14 08:29-08:41/12	07:45 08:53-09:25/32 17:12	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 19:26-19:48/22 20:20 14:11-16:30/139	07:54 14:18-16:00/102 19:12 08:19-08:42/23	07:47 08:53-09:26/33 17:11	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 14:10-16:29/139 20:18 19:25-19:47/22	07:56 14:20-15:58/98 19:10 08:21-08:43/22	07:49 08:53-09:26/33 17:09	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 14:10-16:29/139 20:15 19:26-19:47/21	07:57 14:20-15:56/96 19:08 08:22-08:43/21	07:50 08:52-09:27/35 17:07	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 14:09-16:28/139 20:13 19:25-19:45/20	07:59 14:22-15:54/92 19:05 08:24-08:43/19	07:52 08:52-09:27/35 17:06	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 14:09-16:28/139 20:11 19:26-19:44/18	08:01 14:24-15:52/88 19:03 08:26-08:43/17	07:54 08:53-09:28/35 17:04	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 14:08-16:27/139 20:09 19:26-19:42/16	08:02 14:25-15:49/84 19:01 08:28-08:42/14	07:56 08:52-09:27/35 17:03	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 14:09-16:27/138 20:06 19:28-19:40/12	08:04 14:27-15:47/80 18:59 08:29-08:41/12	07:57 08:52-09:27/35 17:01	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 14:08-16:26/138 20:04 19:30-19:37/7	08:06 14:29-15:45/76 18:57 08:31-08:40/9	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 18:55 08:33-08:38/5	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 07:09-07:14/5 20:52 14:33-16:32/119	07:32 14:08-16:18/130 19:43	08:21 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 07:11-07:16/5 20:50 14:31-16:33/122	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:12-07:16/4 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:16/2 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 14:24-16:32/128 20:44	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 14:23-16:33/130 20:42	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 17:28	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 19:30 08:06-08:17/11	07:31 17:26	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 19:28 08:08-08:16/8	07:33 09:03-09:14/11 17:25	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 19:38-19:40/2 20:35 14:18-16:32/134		07:35 09:00-09:17/17 17:23		08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3089	4419	1939	859	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: EAM_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (42)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:07-06:17/10	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35 06:07-06:17/10	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:09-06:17/8	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:09-06:16/7	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:11-06:15/4	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38 06:18-06:21/3	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39 06:17-06:23/6	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40 06:16-06:24/8	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41 06:16-06:25/9	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30	05:42 06:16-06:26/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43 06:15-06:26/11	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59 06:25-06:27/2	05:30	05:44 06:15-06:27/12	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45 06:15-06:27/12	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46 06:16-06:27/11	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47 06:17-06:28/11	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48 06:18-06:28/10	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50 06:19-06:28/9	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29	05:51 06:20-06:28/8	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:17/1	05:29	05:52 06:21-06:27/6	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:16/2	05:29	05:53 06:23-06:28/5	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:47 06:13-06:17/4	05:30	05:55 06:24-06:27/3	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:12-06:18/6	05:30	05:56 06:25-06:27/2	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34	05:44 06:11-06:18/7	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43 06:10-06:18/8	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:09-06:18/9	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:08-06:18/10	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:18/11	05:32	06:03 06:32-06:35/3	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:06-06:18/12	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:18/12	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37 06:07-06:18/11		06:07 06:36-06:37/1	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	103	39	145	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: EAM_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (43)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:23/1	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:24/3	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:23/4	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52 06:18-06:24/6	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50 06:17-06:24/7	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:24/8	05:29	05:52 06:27-06:29/2	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:14-06:22/8	05:29	05:53 06:25-06:31/6	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:47	06:46	06:38	05:46 06:14-06:21/7	05:30	05:55 06:24-06:32/8	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45 06:16-06:20/4	05:30	05:56 06:25-06:33/8	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57 06:26-06:33/7	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59 06:28-06:34/6	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00 06:29-06:34/5	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:34/2	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:34/1	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	49	0	49	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: EAM_WT03 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (44)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:28/2	05:30	05:43	06:25	07:14	08:02	07:56	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:28/3	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:27/5	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:26/5	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02 06:31-06:35/4	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:37/5	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:37/4	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06 06:34-06:38/4	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:38/2	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	19	0	19	1	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: EAM_WT05 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (46)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:40
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:39
6	08:49	08:16	07:21	07:12	06:11	05:32	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:24	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	247
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:50	08:24		07:32	17:54-17:59/5	07:23		06:20		05:36	21:06-21:13/7
	16:48	17:35		18:25	17:22-17:42/20	20:17		21:06		21:51	
2	08:50	08:23		07:30	17:51-18:01/10	07:21		06:18		05:36	21:08-21:13/5
	16:49	17:36		18:27	17:23-17:41/18	20:19		21:08		21:52	
3	08:50	08:21		07:28	17:50-18:03/13	07:19		06:16		05:35	
	16:50	17:38		18:28	17:25-17:39/14	20:20		21:10		21:53	
4	08:49	08:20		07:26	17:48-18:05/17	07:17	19:54-19:57/3	06:15		05:34	
	16:51	17:40		18:30	17:28-17:36/8	20:22		21:11		21:54	
5	08:49	08:18		07:24	17:47-18:06/19	07:14	19:53-19:58/5	06:13		05:34	
	16:53	17:42		18:32		20:24		21:13		21:55	
6	08:49	08:16		07:22	17:46-18:08/22	07:12	19:52-19:59/7	06:11		05:33	
	16:54	17:44		18:33		20:25		21:14		21:56	
7	08:48	08:15		07:19	17:46-18:10/24	07:10	19:51-20:01/10	06:09		05:32	
	16:55	17:45		18:35		20:27		21:16		21:57	
8	08:48	08:13		07:17	17:45-18:10/25	07:08	19:52-20:03/11	06:08		05:32	
	16:56	17:47		18:37		20:29		21:18		21:57	
9	08:48	08:11		07:15	17:46-18:10/24	07:06	19:52-20:05/13	06:06		05:31	
	16:58	17:49		18:39		20:30		21:19		21:58	
10	08:47	08:09		07:13	17:45-18:09/24	07:03	19:53-20:06/13	06:04		05:31	
	16:59	17:51		18:40		20:32		21:21		21:59	
11	08:47	08:08		07:11	17:45-18:08/23	07:01	19:53-20:03/10	06:03		05:31	
	17:00	17:53		18:42		20:34		21:22		22:00	
12	08:46	08:06		07:08	17:46-18:07/21	06:59	19:55-20:01/6	06:01		05:30	
	17:02	17:55		18:44		20:35		21:24		22:00	
13	08:45	08:04		07:06	17:47-18:06/19	06:57		05:59		05:30	
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:45	08:02		07:04	17:48-18:04/16	06:55		05:58		05:30	
	17:05	17:58		18:47		20:39		21:27		22:02	
15	08:44	08:00		07:02	17:50-18:02/12	06:53		05:56		05:30	
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	17:27-17:34/7	06:59		06:50		05:55		05:30	
	17:08	18:02		18:50		20:42		21:30		22:03	
17	08:42	07:57	17:25-17:36/11	06:57		06:48		05:54		05:29	
	17:09	18:04		18:52		20:43		21:31		22:03	
18	08:41	07:55	17:23-17:38/15	06:55		06:46		05:52	21:02-21:03/1	05:29	
	17:11	18:05		18:54		20:45		21:33		22:04	
19	08:40	07:53	17:22-17:40/18	06:53	18:29-18:31/2	06:44		05:51	21:02-21:04/2	05:30	
	17:12	18:07		18:56		20:47		21:34		22:04	
20	08:39	07:51	17:21-17:42/21	06:50	18:29-18:32/3	06:42		05:49	21:02-21:06/4	05:30	
	17:14	18:09		18:57		20:48		21:36		22:04	
21	08:38	07:49	17:21-17:44/23	06:48	18:27-18:33/6	06:40		05:48	21:01-21:06/5	05:30	
	17:16	18:11		18:59		20:50		21:37		22:04	
22	08:37	07:47	17:20-17:46/26	06:46	18:27-18:35/8	06:38		05:47	21:01-21:07/6	05:30	
	17:17	18:12		19:01		20:52		21:38		22:05	
23	08:36	07:45	17:20-17:48/28	06:44	18:28-18:37/9	06:36		05:46	21:01-21:09/8	05:30	
	17:19	18:14		19:02		20:53		21:40		22:05	
24	08:35	07:43	17:20-17:50/30	06:41	18:28-18:38/10	06:34		05:44	21:01-21:10/9	05:30	
	17:21	18:16		19:04		20:55		21:41		22:05	
25	08:34	07:41	17:20-17:52/32	06:39	18:30-18:36/6	06:32		05:43	21:01-21:11/10	05:31	
	17:22	18:18		19:06		20:57		21:42		22:05	
26	08:32	07:39	17:20-17:51/31	06:37		06:30		05:42	21:02-21:12/10	05:31	
	17:24	18:20		19:07		20:58		21:44		22:05	
27	08:31	07:36	17:21-17:45/24	06:35		06:28		05:41	21:02-21:13/11	05:32	
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34	17:21-17:43/22	06:32		06:26		05:40	21:02-21:14/12	05:32	
	17:28	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	21:04-21:16/12	05:33	
	17:29			20:12		21:03		21:47		22:05	
30	08:27			07:28		06:22		05:38	21:04-21:15/11	05:33	
	17:31			20:14		21:05		21:48		22:05	
31	08:26			07:26				05:37	21:05-21:14/9		
	17:33			20:15				21:50			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	288		378		78		110		12	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:53-20:03/10	07:45 18:25-18:46/21	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11	06:59 19:51-20:03/12	07:46 18:25-18:47/22	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:50-20:03/13	07:48 18:23-18:46/23	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02 19:49-20:00/11	07:49 18:23-18:47/24	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03 19:49-19:58/9	07:51 18:22-18:47/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05 19:48-19:55/7	07:53 18:21-18:46/25	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:07 19:48-19:54/6	07:54 18:22-18:45/23	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08 19:49-19:51/2	07:56 18:22-18:43/21	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:58 18:22-18:40/18	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:16-21:20/4	06:23	07:11	07:59 18:23-18:38/15	07:52	08:37
	22:00	21:18	20:13	19:05 18:01-18:12/11	17:06	16:38
11	05:42 21:15-21:21/6	06:24	07:13	08:01 18:24-18:36/12	07:54	08:39
	21:59	21:16	20:11	19:03 17:58-18:14/16	17:04	16:38
12	05:43 21:14-21:22/8	06:26	07:14	08:02 18:26-18:34/8	07:56	08:40
	21:58	21:15	20:09	19:01 17:57-18:16/19	17:03	16:38
13	05:44 21:13-21:23/10	06:27	07:16	08:04 18:29-18:31/2	07:57	08:41
	21:57	21:13	20:06	18:59 17:54-18:16/22	17:01	16:38
14	05:45 21:13-21:24/11	06:29	07:18	08:06 17:53-18:17/24	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07 17:53-18:22/29	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09 17:52-18:23/31	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11 17:51-18:22/31	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13 17:51-18:20/29	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14 17:51-18:18/27	08:08	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16 17:52-18:16/24	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18 17:51-18:14/23	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19 17:52-18:12/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21 17:53-18:10/17	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 21:11-21:14/3	06:45	07:33 19:13-19:15/2	08:23 17:54-18:08/14	08:16	08:48
	21:45	20:51	19:41	18:36	16:48	16:41
25	05:59 21:12-21:14/2	06:46	07:35	07:24 16:56-17:06/10	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 16:59-17:04/5	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:32-18:41/9	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:30-18:44/14	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:27-18:45/18	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	125	6	157	591	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 17:00-17:05/5	07:32 17:57-17:59/2	07:23	06:20 20:37-20:38/1	05:36
	16:48	17:35 16:38-16:50/12	18:25	20:17	21:06	21:51
2	08:50	08:23 16:59-17:07/8	07:30 17:57-18:01/4	07:21	06:18 20:38-20:40/2	05:36
	16:49	17:36 16:40-16:48/8	18:27	20:19	21:08	21:52
3	08:50	08:21 16:58-17:09/11	07:28 17:57-18:03/6	07:19	06:16 20:39-20:41/2	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49	08:20 16:58-17:11/13	07:26 17:58-18:05/7	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49	08:18 16:58-17:13/15	07:24 17:58-18:06/8	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49	08:16 16:57-17:15/18	07:22 18:00-18:05/5	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48	08:15 16:57-17:16/19	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:57
8	08:48	08:13 16:58-17:19/21	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:18	21:57
9	08:48	08:11 16:59-17:20/21	07:15	07:06	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09 16:59-17:17/18	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47	08:08 17:00-17:16/16	07:11	07:01	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46	08:06 17:01-17:15/14	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45	08:04 17:03-17:13/10	07:06 18:17-18:20/3	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45	08:02 17:07-17:09/2	07:04 18:16-18:22/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:39	21:27	22:02
15	08:44	08:00	07:02 18:16-18:24/8	06:53	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:33-16:35/2	07:58	06:59 18:16-18:26/10	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:32-16:37/5	07:57	06:57 18:16-18:27/11	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:32-16:39/7	07:55	06:55 18:17-18:28/11	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:32-16:41/9	07:53	06:53 18:19-18:26/7	06:44 20:17-20:20/3	05:51	05:30
	17:12	18:07	18:56	20:47	21:34	22:04
20	08:39 16:32-16:43/11	07:51	06:50	06:42 20:17-20:22/5	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:31-16:44/13	07:49	06:48	06:40 20:16-20:23/7	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:31-16:46/15	07:47	06:46	06:38 20:16-20:25/9	05:47	05:30
	17:17	18:12	19:01	20:52	21:38	22:05
23	08:36 16:31-16:48/17	07:45	06:44	06:36 20:16-20:26/10	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:32-16:50/18	07:43	06:41	06:34 20:16-20:28/12	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:31-16:51/20	07:41	06:39	06:32 20:17-20:29/12	05:43	05:31
	17:22	18:18	19:06	20:57	21:42	22:05
26	08:32 16:32-16:53/21	07:39	06:37	06:30 20:18-20:27/9	05:42	05:31
	17:24	18:20	19:07	20:58	21:44	22:05
27	08:31 16:32-16:52/20	07:36	06:35	06:28 20:21-20:24/3	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 16:33-16:53/20	07:34	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 16:33-16:52/19		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:35-16:52/17		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 17:01-17:03/2		07:26		05:37	
	17:33 16:36-16:51/15		20:15		21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	231	211	88	70	5	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:57-18:58/1	07:37	16:29-16:47/18	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46		07:38	16:28-16:50/22	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:28-16:48/20	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:27-16:46/19	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:27-16:44/17	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17		07:05		07:53		07:45	16:28-16:42/14	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18		07:07		07:54		07:47	16:28-16:41/13	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20		07:08		07:56	18:35-18:42/7	07:49	16:29-16:39/10	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:50-20:51/1	07:10		07:58	18:32-18:40/8	07:51	16:30-16:38/8	08:36
	22:00	21:20		20:16		19:08		17:07	16:10-16:19/9	16:39
10	05:41	06:23	20:48-20:50/2	07:11		07:59	18:32-18:38/6	07:52	16:31-16:36/5	08:37
	22:00	21:18		20:13		19:05		17:06	16:09-16:21/12	16:38
11	05:42	06:24	20:46-20:48/2	07:13		08:01	18:31-18:36/5	07:54	16:33-16:35/2	08:38
	21:59	21:16		20:11		19:03		17:04	16:07-16:23/16	16:38
12	05:43	06:26		07:14		08:02	18:30-18:33/3	07:56	16:06-16:23/17	08:40
	21:58	21:15		20:09		19:01		17:03		16:38
13	05:44	06:27		07:16		08:04		07:57	16:05-16:24/19	08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29		07:18		08:06		07:59	16:05-16:24/19	08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30		07:19		08:07		08:01	16:05-16:25/20	08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:27-20:32/5	07:21		08:09		08:03	16:05-16:26/21	08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:24-20:34/10	07:22		08:11		08:04	16:05-16:25/20	08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:23-20:35/12	07:24		08:13		08:06	16:06-16:24/18	08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:22-20:33/11	07:25		08:14		08:08	16:05-16:22/17	08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:22-20:32/10	07:27		08:16		08:09	16:06-16:21/15	08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:21-20:29/8	07:29		08:18		08:11	16:07-16:20/13	08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:21-20:28/7	07:30		08:19		08:12	16:08-16:19/11	08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:20-20:25/5	07:32		08:21		08:14	16:08-16:17/9	08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:21-20:24/3	07:33	19:04-19:08/4	08:23		08:16	16:09-16:16/7	08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46		07:35	19:00-19:10/10	07:24		08:17	16:10-16:15/5	08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48		07:37	18:59-19:10/11	07:26		08:19	16:11-16:14/3	08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49		07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51		07:40	18:57-19:05/8	07:30	16:35-16:40/5	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:32-16:43/11	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:56-19:00/4	07:33	16:30-16:45/15	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:29-16:46/17			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	76		53		78		399		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	07:45-07:51/6	06:20		05:36	06:24-06:41/17
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21	07:46-07:48/2	06:18		05:35	06:25-06:41/16
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	06:25-06:40/15
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:14		05:34	06:25-06:40/15
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	06:27-06:40/13
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12	07:34-07:36/2	06:11		05:33	06:27-06:39/12
	16:54	17:43	18:33		20:25		21:14		21:56	
7	08:48	08:14	07:19	07:44-07:53/9	07:10	07:32-07:37/5	06:09		05:32	06:28-06:39/11
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:42-07:55/13	07:08	07:30-07:36/6	06:07		05:32	06:00-06:02/2
	16:56	17:47	18:37		20:28		21:17		21:57	06:28-06:38/10
9	08:47	08:11	07:15	07:41-07:56/15	07:05	07:28-07:35/7	06:06		05:31	06:00-06:03/3
	16:57	17:49	18:38		20:30		21:19		21:58	06:29-06:38/9
10	08:47	08:09	07:13	07:39-07:56/17	07:03	07:30-07:33/3	06:04		05:31	06:00-06:04/4
	16:59	17:51	18:40		20:32		21:21		21:59	06:31-06:37/6
11	08:46	08:08	07:10	07:39-07:56/17	07:01		06:02		05:30	05:59-06:04/5
	17:00	17:53	18:42		20:33		21:22		22:00	06:31-06:36/5
12	08:46	08:06	07:08	07:39-07:56/17	06:59		06:01		05:30	05:59-06:05/6
	17:02	17:54	18:44		20:35		21:24		22:00	06:33-06:35/2
13	08:45	08:04	07:06	07:38-07:55/17	06:57		05:59		05:30	05:59-06:06/7
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:38-07:54/16	06:54		05:58	06:29-06:34/5	05:30	05:59-06:06/7
	17:04	17:58	18:47		20:38		21:27		22:01	
15	08:44	08:00	07:01	07:39-07:53/14	06:52		05:56	06:27-06:37/10	05:29	05:59-06:07/8
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:41-07:51/10	06:50		05:55	06:26-06:38/12	05:29	05:59-06:07/8
	17:07	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:44-07:46/2	06:48		05:53	06:24-06:39/15	05:29	05:59-06:07/8
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55		06:46		05:52	06:24-06:40/16	05:29	05:59-06:07/8
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:52		06:44		05:51	06:23-06:40/17	05:29	05:59-06:08/9
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50		06:42		05:49	06:23-06:41/18	05:29	05:59-06:08/9
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48		06:40		05:48	06:22-06:41/19	05:30	05:59-06:08/9
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	06:22-06:41/19	05:30	06:00-06:09/9
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43		06:36		05:45	06:22-06:41/19	05:30	06:00-06:09/9
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:43	06:41		06:34		05:44	06:22-06:42/20	05:30	06:00-06:09/9
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39		06:32		05:43	06:22-06:42/20	05:31	06:01-06:09/8
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:22-06:42/20	05:31	06:01-06:09/8
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:22-06:42/20	05:31	06:01-06:09/8
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:22-06:41/19	05:32	06:02-06:09/7
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	07:52-07:53/1	06:24		05:39	06:22-06:41/19	05:32	06:02-06:09/7
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	07:50-07:53/3	06:22		05:38	06:23-06:42/19	05:33	06:03-06:09/6
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	07:48-07:53/5			05:37	06:24-06:41/17		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	156		31		304		295	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:10/6	06:09	06:57	07:44 08:17-08:35/18	07:36	08:26
	22:04 06:37-06:41/4	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:09/5	06:10	06:59 07:28-07:31/3	07:46 08:17-08:35/18	07:38	08:27
	22:04 06:35-06:41/6	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:09/4	06:12	07:00 07:26-07:33/7	07:48 08:17-08:34/17	07:40	08:29
	22:04 06:35-06:43/8	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:09/3	06:13	07:02 07:27-07:33/6	07:49 08:17-08:33/16	07:42	08:30
	22:03 06:35-06:44/9	21:29	20:27	19:19	17:16	16:40
5	05:36 06:06-06:07/1	06:15	07:03 07:29-07:34/5	07:51 08:18-08:32/14	07:43	08:31
	22:03 06:33-06:44/11	21:27	20:24	19:16	17:14	16:40
6	05:37 06:33-06:45/12	06:16	07:05 07:30-07:33/3	07:52 08:19-08:30/11	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:33-06:46/13	06:18	07:06	07:54 08:21-08:28/7	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:33-06:47/14	06:19	07:08	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:33-06:48/15	06:21	07:10	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:33-06:48/15	06:23	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:32-06:49/17	06:24	07:13 07:38-07:44/6	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:32-06:49/17	06:26	07:14 07:39-07:44/5	08:02	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:32-06:50/18	06:27	07:16 07:41-07:44/3	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:32-06:50/18	06:29	07:17 07:42-07:43/1	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 06:32-06:51/19	06:30	07:19	08:07	08:01	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:32-06:51/19	06:32	07:21	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:31-06:51/20	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:31-06:51/20	06:35	07:24	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51 06:31-06:51/20	06:37	07:25	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:31-06:51/20	06:38	07:27	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 06:32-06:52/20	06:40	07:28	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 06:32-06:51/19	06:41	07:30	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:32-06:51/19	06:43	07:32	08:21	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:33-06:50/17	06:44	07:33	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:34-06:51/17	06:46	07:35	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:34-06:50/16	06:48	07:36	07:26	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02 06:35-06:49/14	06:49	07:38 08:24-08:32/8	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:37-06:48/11	06:51	07:40 08:21-08:33/12	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:38-06:46/8	06:52	07:41 08:20-08:34/14	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43 08:18-08:34/16	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	455	0	89	101	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May	June	
1	08:50	08:24		07:32	08:26-08:44/18	07:23		06:20	05:36	
	16:48	17:35		18:25		20:17		21:06	21:51	
2	08:50	08:22		07:30	08:28-08:42/14	07:21	07:43-07:46/3	06:18	05:35	
	16:49	17:36		18:26		20:19		21:08	21:52	
3	08:49	08:21		07:28	08:30-08:40/10	07:19	07:41-07:47/6	06:16	05:35	
	16:50	17:38		18:28		20:20		21:09	21:53	
4	08:49	08:19		07:26		07:16	07:39-07:47/8	06:14	05:34	
	16:51	17:40		18:30		20:22		21:11	21:54	
5	08:49	08:18		07:24		07:14	07:37-07:47/10	06:13	05:33	
	16:52	17:42		18:32		20:24		21:13	21:55	
6	08:49	08:16		07:21		07:12	07:35-07:46/11	06:11	05:33	
	16:54	17:44		18:33		20:25		21:14	21:56	
7	08:48	08:14		07:19		07:10	07:36-07:45/9	06:09	05:32	
	16:55	17:45		18:35		20:27		21:16	21:56	
8	08:48	08:13		07:17		07:08	07:37-07:43/6	06:07	05:32	06:24-06:27/3
	16:56	17:47		18:37		20:28		21:17	21:57	
9	08:47	08:11		07:15		07:05		06:06	05:31	06:22-06:30/8
	16:57	17:49		18:38		20:30		21:19	21:58	
10	08:47	08:09		07:13		07:03		06:04	05:31	06:22-06:31/9
	16:59	17:51		18:40		20:32		21:21	21:59	
11	08:46	08:08		07:10		07:01		06:02	05:30	06:20-06:32/12
	17:00	17:53		18:42		20:33		21:22	22:00	
12	08:46	08:06		07:08		06:59		06:01	05:30	06:20-06:33/13
	17:02	17:54		18:44		20:35		21:24	22:00	
13	08:45	08:04		07:06		06:57		05:59	05:30	06:20-06:34/14
	17:03	17:56		18:45		20:37		21:25	22:01	
14	08:44	08:02		07:04		06:54		05:58	05:30	06:20-06:34/14
	17:04	17:58		18:47		20:38		21:27	22:02	
15	08:44	08:00		07:01		06:52		05:56	05:29	06:20-06:35/15
	17:06	18:00		18:49		20:40		21:28	22:02	
16	08:43	07:58	08:34-08:40/6	06:59		06:50		05:55	05:29	06:20-06:36/16
	17:08	18:02		18:50		20:42		21:30	22:03	
17	08:42	07:56	08:31-08:43/12	06:57		06:48		05:53	05:29	06:20-06:36/16
	17:09	18:03		18:52		20:43		21:31	22:03	
18	08:41	07:55	08:29-08:45/16	06:55		06:46		05:52	05:29	06:20-06:36/16
	17:11	18:05		18:54		20:45		21:33	22:03	
19	08:40	07:53	08:28-08:46/18	06:52		06:44		05:51	05:29	06:20-06:37/17
	17:12	18:07		18:55		20:47		21:34	22:04	
20	08:39	07:51	08:26-08:47/21	06:50		06:42		05:49	05:29	06:20-06:37/17
	17:14	18:09		18:57		20:48		21:35	22:04	
21	08:38	07:49	08:26-08:48/22	06:48		06:40		05:48	05:30	06:20-06:37/17
	17:16	18:11		18:59		20:50		21:37	22:04	
22	08:37	07:47	08:25-08:48/23	06:46		06:38		05:47	05:30	06:21-06:38/17
	17:17	18:12		19:00		20:52		21:38	22:05	
23	08:36	07:45	08:25-08:49/24	06:43		06:36		05:45	05:30	06:21-06:38/17
	17:19	18:14		19:02		20:53		21:39	22:05	
24	08:35	07:43	08:25-08:49/24	06:41	07:04-07:05/1	06:34		05:44	05:30	06:21-06:38/17
	17:21	18:16		19:04		20:55		21:41	22:05	
25	08:34	07:40	08:25-08:48/23	06:39	07:01-07:05/4	06:32		05:43	05:31	06:21-06:37/16
	17:22	18:18		19:05		20:56		21:42	22:05	
26	08:32	07:38	08:25-08:48/23	06:37	06:59-07:05/6	06:30		05:42	05:31	06:22-06:38/16
	17:24	18:19		19:07		20:58		21:43	22:05	
27	08:31	07:36	08:26-08:47/21	06:34	06:57-07:05/8	06:28		05:41	05:31	06:22-06:37/15
	17:26	18:21		19:09		21:00		21:45	22:05	
28	08:30	07:34	08:25-08:46/21	06:32	06:54-07:04/10	06:26		05:40	05:32	06:23-06:38/15
	17:27	18:23		19:10		21:01		21:46	22:05	
29	08:28			07:30	07:55-08:03/8	06:24		05:39	05:32	06:23-06:37/14
	17:29			20:12		21:03		21:47	22:05	
30	08:27			07:28	07:58-08:00/2	06:22		05:38	05:33	06:24-06:37/13
	17:31			20:14		21:05		21:48	22:04	
31	08:25			07:25				05:37		
	17:33			20:15				21:49		
Potential sun hours	262	279		367		415		482	495	
Sum of minutes with flicker	0	254		81		53		0	327	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:27-06:36/9	06:12	07:00	07:48	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:29-06:35/6	06:13	07:02 07:34-07:40/6	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:36	06:15	07:03 07:33-07:42/9	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05 07:31-07:42/11	07:52	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06 07:32-07:42/10	07:54	07:47	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39	06:19	07:08 07:33-07:41/8	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 07:35-07:41/6	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41	06:23	07:11 07:36-07:39/3	07:59 09:07-09:11/4	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 09:03-09:15/12	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 09:00-09:16/16	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:59-09:18/19	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 07:46-07:53/7	08:06 08:58-09:19/21	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:45-07:54/9	08:07 08:58-09:20/22	08:01	08:42
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 07:45-07:54/9	08:09 08:56-09:19/23	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 07:47-07:54/7	08:11 08:56-09:20/24	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 07:49-07:54/5	08:12 08:56-09:20/24	08:06	08:45
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37	07:25 07:50-07:52/2	08:14 08:56-09:20/24	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 08:57-09:20/23	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17 08:56-09:18/22	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:57-09:17/20	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:58-09:16/18	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 09:00-09:15/15	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 08:02-08:13/11	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 08:07-08:09/2	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:24	16:43	16:46
31	06:07	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	37	0	92	300	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April	May		June	
1	08:50	08:24		07:32	07:59-08:09/10	07:23	06:20		05:36	18:54-19:56/62
	16:48	17:35		18:25		20:17	21:06		21:51	
2	08:50	08:23		07:30	07:57-08:11/14	07:21	06:18		05:36	18:55-19:57/62
	16:49	17:36		18:26		20:19	21:08		21:52	
3	08:49	08:21		07:28	07:56-08:12/16	07:19	06:16		05:35	18:54-19:57/63
	16:50	17:38		18:28		20:20	21:09		21:53	
4	08:49	08:19		07:26	07:55-08:13/18	07:16	06:15		05:34	18:54-19:58/64
	16:51	17:40		18:30		20:22	21:11		21:54	
5	08:49	08:18		07:24	07:54-08:12/18	07:14	06:13		05:33	18:54-19:59/65
	16:52	17:42		18:32		20:24	21:13		21:55	
6	08:49	08:16		07:21	07:53-08:12/19	07:12	06:11		05:33	18:54-19:59/65
	16:54	17:44		18:33		20:25	21:14		21:56	
7	08:48	08:15		07:19	07:53-08:12/19	07:10	06:09		05:32	18:54-20:00/66
	16:55	17:45		18:35		20:27	21:16		21:56	
8	08:48	08:13		07:17	07:54-08:12/18	07:08	06:08		05:32	18:53-20:00/67
	16:56	17:47		18:37		20:29	21:17		21:57	
9	08:48	08:11		07:15	07:55-08:11/16	07:05	06:06		05:31	18:54-20:00/66
	16:57	17:49		18:39		20:30	21:19		21:58	
10	08:47	08:09		07:13	07:55-08:08/13	07:03	06:04		05:31	18:54-20:01/67
	16:59	17:51		18:40		20:32	21:21		21:59	
11	08:46	08:08		07:10	07:56-08:06/10	07:01	06:03		05:30	18:53-20:01/68
	17:00	17:53		18:42		20:33	21:22		22:00	
12	08:46	08:06		07:08	08:01-08:02/1	06:59	06:01		05:30	18:54-20:01/67
	17:02	17:54		18:44		20:35	21:24		22:00	
13	08:45	08:04		07:06		06:57	05:59		05:30	18:54-20:02/68
	17:03	17:56		18:45		20:37	21:25		22:01	
14	08:44	08:02		07:04	07:35-07:45/10	06:55	05:58	19:16-19:30/14	05:30	18:54-20:02/68
	17:05	17:58		18:47		20:38	21:27		22:02	
15	08:44	08:00		07:02	07:32-07:47/15	06:52	05:56	19:12-19:35/23	05:30	18:54-20:03/69
	17:06	18:00		18:49		20:40	21:28		22:02	
16	08:43	07:58		06:59	07:31-07:48/17	06:50	05:55	19:10-19:38/28	05:29	18:54-20:03/69
	17:08	18:02		18:50		20:42	21:30		22:03	
17	08:42	07:56		06:57	07:29-07:48/19	06:48	05:53	19:07-19:39/32	05:29	18:55-20:03/68
	17:09	18:03		18:52		20:43	21:31		22:03	
18	08:41	07:55		06:55	07:28-07:49/21	06:46	05:52	19:05-19:41/36	05:29	18:55-20:04/69
	17:11	18:05		18:54		20:45	21:33		22:03	
19	08:40	07:53		06:53	07:27-07:49/22	06:44	05:51	19:04-19:43/39	05:29	18:55-20:04/69
	17:12	18:07		18:55		20:47	21:34		22:04	
20	08:39	07:51		06:50	07:27-07:49/22	06:42	05:49	19:03-19:45/42	05:29	18:55-20:04/69
	17:14	18:09		18:57		20:48	21:35		22:04	
21	08:38	07:49		06:48	07:26-07:48/22	06:40	05:48	19:01-19:45/44	05:30	18:55-20:04/69
	17:16	18:11		18:59		20:50	21:37		22:04	
22	08:37	07:47		06:46	07:26-07:48/22	06:38	05:47	19:00-19:47/47	05:30	18:56-20:05/69
	17:17	18:12		19:00		20:52	21:38		22:05	
23	08:36	07:45		06:44	07:27-07:47/20	06:36	05:45	18:59-19:48/49	05:30	18:56-20:05/69
	17:19	18:14		19:02		20:53	21:40		22:05	
24	08:35	07:43		06:41	07:28-07:46/18	06:34	05:44	18:58-19:49/51	05:30	18:56-20:05/69
	17:21	18:16		19:04		20:55	21:41		22:05	
25	08:34	07:41		06:39	07:28-07:43/15	06:32	05:43	18:58-19:50/52	05:31	18:56-20:05/69
	17:22	18:18		19:05		20:56	21:42		22:05	
26	08:32	07:38		06:37	07:30-07:41/11	06:30	05:42	18:57-19:51/54	05:31	18:57-20:05/68
	17:24	18:19		19:07		20:58	21:43		22:05	
27	08:31	07:36		06:34	07:34-07:36/2	06:28	05:41	18:57-19:52/55	05:31	18:56-20:05/69
	17:26	18:21		19:09		21:00	21:45		22:05	
28	08:30	07:34	08:03-08:05/2	06:32		06:26	05:40	18:56-19:52/56	05:32	18:57-20:06/69
	17:27	18:23		19:10		21:01	21:46		22:05	
29	08:28			07:30		06:24	05:39	18:55-19:53/58	05:32	18:57-20:05/68
	17:29			20:12		21:03	21:47		22:05	
30	08:27			07:28		06:22	05:38	18:56-19:55/59	05:33	18:58-20:06/68
	17:31			20:14		21:05	21:48		22:04	
31	08:25			07:25			05:37	18:55-19:55/60		
	17:33			20:15			21:49			
Potential sun hours	262	279		367		415	482		495	
Sum of minutes with flicker	0	2		408		0	799		2018	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:58-20:06/68	06:09	06:57	07:44	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 18:58-20:05/67	06:10	06:59	07:46 08:36-08:44/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 18:59-20:06/67	06:12	07:00	07:48 08:33-08:45/12	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 18:59-20:06/67	06:13	07:02	07:49 08:32-08:47/15	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 18:59-20:05/66	06:15	07:03	07:51 08:31-08:48/17	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 19:00-20:05/65	06:16	07:05	07:53 08:30-08:48/18	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 19:00-20:05/65	06:18	07:06	07:54 08:29-08:48/19	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 19:01-20:05/64	06:20	07:08	07:56 08:29-08:48/19	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 19:02-20:05/63	06:21	07:10	07:57 08:29-08:47/18	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 19:02-20:05/63	06:23	07:11	07:59 08:29-08:46/17	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 19:03-20:04/61	06:24	07:13	08:01 08:30-08:46/16	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 19:03-20:04/61	06:26	07:14	08:02 08:32-08:44/12	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 19:04-20:04/60	06:27	07:16	08:04 08:33-08:41/8	07:57	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45 19:04-20:03/59	06:29	07:17	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46 19:05-20:02/57	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47 19:06-20:02/56	06:32	07:21	08:09	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49 19:06-20:01/55	06:33	07:22 08:19-08:29/10	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 19:07-20:00/53	06:35	07:24 08:16-08:30/14	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51 19:08-19:59/51	06:37	07:25 08:15-08:32/17	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 19:08-19:58/50	06:38	07:27 08:14-08:33/19	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 19:10-19:58/48	06:40	07:28 08:12-08:33/21	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 19:11-19:57/46	06:41	07:30 08:12-08:34/22	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 19:12-19:55/43	06:43	07:32 08:11-08:33/22	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 19:13-19:54/41	06:44	07:33 08:11-08:33/22	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 19:15-19:53/38	06:46	07:35 08:10-08:32/22	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 19:16-19:51/35	06:48	07:36 08:11-08:31/20	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 19:18-19:49/31	06:49	07:38 08:12-08:30/18	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 19:21-19:47/26	06:51	07:40 08:12-08:28/16	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 19:24-19:44/20	06:52	07:41 08:15-08:27/12	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 19:28-19:38/10	06:54	07:43 08:17-08:22/5	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	1556	0	240	179	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:11-15:27/16 16:48	08:24 17:35	07:32 08:32-09:09/37 18:25	07:23 19:02-19:30/28 20:17	06:20 21:06	05:36 06:04-06:06/2 21:51
2	08:50 15:12-15:27/15 16:49	08:23 17:36	07:30 08:32-09:09/37 18:26	07:21 19:02-19:31/29 20:19	06:18 21:08	05:36 06:04-06:07/3 21:52
3	08:49 15:14-15:27/13 16:50	08:21 09:07-09:09/2 17:38	07:28 08:32-09:09/37 18:28	07:19 19:01-19:31/30 20:20	06:16 21:09	05:35 06:03-06:06/3 21:53
4	08:49 15:14-15:27/13 16:51	08:19 09:03-09:14/11 17:40	07:26 08:32-09:09/37 18:30	07:17 19:01-19:31/30 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 15:16-15:27/11 16:52	08:18 09:01-09:16/15 17:42	07:24 08:31-09:07/36 18:32	07:14 19:01-19:31/30 20:24	06:13 21:13	05:33 06:02-06:06/4 21:55
6	08:49 15:18-15:25/7 16:54	08:16 08:59-09:17/18 17:44	07:21 08:31-09:07/36 18:33	07:12 19:01-19:30/29 20:25	06:11 21:14	05:33 06:01-06:05/4 21:56
7	08:48 15:21-15:24/3 16:55	08:15 08:57-09:18/21 17:45	07:19 08:32-09:06/34 18:35	07:10 19:01-19:29/28 20:27	06:09 21:16	05:32 06:01-06:05/4 21:56
8	08:48 16:56	08:13 08:57-09:20/23 17:47	07:17 08:32-09:06/34 18:37	07:08 19:02-19:28/26 20:29	06:08 21:17	05:32 06:02-06:05/3 21:57
9	08:48 16:57	08:11 08:56-09:21/25 17:49	07:15 08:33-09:05/32 18:39	07:05 19:02-19:28/26 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 08:55-09:21/26 17:51	07:13 08:33-09:02/29 18:40	07:03 19:03-19:26/23 20:32	06:04 21:21	05:31 21:59
11	08:46 17:00	08:08 08:55-09:22/27 17:53	07:10 08:34-09:01/27 18:42	07:01 19:04-19:24/20 20:33	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 08:54-09:22/28 17:54	07:08 08:36-08:59/23 18:44	06:59 19:06-19:22/16 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 08:54-09:22/28 17:56	07:06 08:38-08:56/18 18:45	06:57 19:08-19:20/12 20:37	05:59 21:25	05:30 22:01
14	08:44 17:05	08:02 08:54-09:22/28 17:58	07:04 08:40-08:52/12 18:47	06:55 20:38	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 08:54-09:22/28 18:00	07:02 18:49	06:52 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 08:54-09:21/27 18:02	06:59 18:50	06:50 20:42	05:55 21:30	05:29 22:03
17	08:42 17:09	07:56 08:55-09:21/26 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03
18	08:41 17:11	07:55 08:55-09:20/25 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:29 22:03
19	08:40 17:12	07:53 08:51-08:53/2 18:07 08:56-09:19/23	06:53 18:55	06:44 20:47	05:51 21:34	05:29 22:04
20	08:39 17:14	07:51 08:45-09:17/32 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04
21	08:38 17:16	07:49 08:42-09:16/34 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04
22	08:37 17:17	07:47 08:40-09:13/33 18:12	06:46 19:00	06:38 20:52	05:47 21:38	05:30 22:05
23	08:36 17:19	07:45 08:38-09:09/31 18:14	06:44 19:02	06:36 20:53	05:46 21:40	05:30 22:05
24	08:35 17:21	07:43 08:37-09:06/29 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05
25	08:34 17:22	07:41 08:36-09:07/31 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05
26	08:32 17:24	07:38 08:35-09:08/33 18:19	06:37 18:15-18:22/7 19:07	06:30 20:58	05:42 21:43	05:31 22:05
27	08:31 17:26	07:36 08:34-09:09/35 18:21	06:34 18:11-18:25/14 19:09	06:28 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 08:32-09:08/36 18:23	06:32 18:08-18:26/18 19:10	06:26 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 19:06-19:28/22 20:12	06:24 21:03	05:39 21:47	05:33 22:05
30	08:27 17:31		07:28 19:05-19:30/25 20:14	06:22 21:05	05:38 21:48	05:33 22:04
31	08:26 17:33		07:25 19:04-19:31/27 20:15		05:37 06:05-06:06/1 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	78	677	542	327	1	27

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 21:34	06:57 19:04-19:24/20 20:33	07:44 09:15-09:36/21 19:25	07:37 08:25-08:51/26 17:21	08:26 16:42
2	05:34 22:04	06:10 21:32	06:59 19:01-19:24/23 20:31	07:46 09:14-09:39/25 19:23	07:38 08:26-08:50/24 17:19	08:27 16:41
3	05:35 22:04	06:12 21:30	07:00 19:00-19:26/26 20:29	07:48 09:11-09:39/28 19:21	07:40 08:27-08:50/23 17:17	08:29 16:41
4	05:36 22:03	06:13 21:29	07:02 18:59-19:25/26 20:27	07:49 09:10-09:41/31 19:19	07:42 08:27-08:48/21 17:16	08:30 16:40
5	05:37 06:07-06:11/4 22:03	06:15 21:27	07:03 18:58-19:26/28 20:24	07:51 09:09-09:42/33 19:16	07:44 08:29-08:47/18 17:14	08:31 15:06-15:09/3 16:40
6	05:37 06:07-06:11/4 22:02	06:16 21:25	07:05 18:57-19:26/29 20:22	07:53 09:08-09:42/34 19:14	07:45 08:31-08:46/15 17:12	08:33 15:04-15:11/7 16:39
7	05:38 06:08-06:12/4 22:02	06:18 21:24	07:06 18:57-19:26/29 20:20	07:54 09:07-09:43/36 19:12	07:47 08:33-08:44/11 17:11	08:34 15:04-15:14/10 16:39
8	05:39 06:09-06:13/4 22:01	06:20 21:22	07:08 18:55-19:25/30 20:18	07:56 09:07-09:43/36 19:10	07:49 17:09	08:35 15:03-15:15/12 16:39
9	05:40 06:10-06:13/3 22:00	06:21 21:20	07:10 18:56-19:25/29 20:15	07:57 09:06-09:43/37 19:08	07:50 17:07	08:36 15:02-15:16/14 16:38
10	05:41 06:11-06:14/3 22:00	06:23 21:18	07:11 18:55-19:24/29 20:13	07:59 09:06-09:43/37 19:05	07:52 17:06	08:37 15:02-15:16/14 16:38
11	05:42 06:12-06:14/2 21:59	06:24 21:16	07:13 18:55-19:23/28 20:11	08:01 09:06-09:43/37 19:03	07:54 17:04	08:38 15:01-15:17/16 16:38
12	05:43 06:13-06:15/2 21:58	06:26 21:14	07:14 18:55-19:22/27 20:09	08:02 09:06-09:43/37 19:01	07:56 17:03	08:39 15:01-15:18/17 16:38
13	05:44 06:14-06:15/1 21:57	06:27 21:13	07:16 18:56-19:21/25 20:06	08:04 09:05-09:42/37 18:59	07:57 17:01	08:40 15:01-15:19/18 16:38
14	05:45 21:56	06:29 21:11	07:17 18:56-19:19/23 20:04	08:06 09:06-09:41/35 18:57	07:59 17:00	08:41 15:02-15:19/17 16:38
15	05:46 21:56	06:30 21:09	07:19 18:58-19:17/19 20:02	08:07 09:07-09:41/34 18:55	08:01 16:59	08:42 15:02-15:20/18 16:38
16	05:48 21:55	06:32 21:07	07:21 18:59-19:14/15 20:00	08:09 09:06-09:39/33 18:52	08:02 16:57	08:43 15:02-15:21/19 16:38
17	05:49 21:54	06:33 21:05	07:22 19:02-19:11/9 19:57	08:11 09:07-09:38/31 18:50	08:04 16:56	08:44 15:03-15:22/19 16:38
18	05:50 21:52	06:35 21:03	07:24 19:55	08:12 09:09-09:37/28 18:48	08:06 16:55	08:45 15:03-15:22/19 16:39
19	05:51 21:51	06:37 21:01	07:25 19:53	08:14 09:10-09:42/32 18:46	08:07 16:53	08:45 15:03-15:23/20 16:39
20	05:52 21:50	06:38 20:59	07:27 19:50	08:16 09:12-09:45/33 18:44	08:09 16:52	08:46 15:04-15:23/19 16:39
21	05:54 21:49	06:40 20:57	07:28 19:48	08:18 09:13-09:47/34 18:42	08:11 16:51	08:47 15:04-15:23/19 16:40
22	05:55 21:48	06:41 20:55	07:30 19:46	08:19 09:17-09:48/31 18:40	08:12 16:50	08:47 15:05-15:24/19 16:40
23	05:56 21:47	06:43 20:53	07:32 19:44	08:21 09:26-09:50/24 18:38	08:14 16:49	08:48 15:05-15:24/19 16:41
24	05:58 21:45	06:44 20:50	07:33 19:41	08:23 09:25-09:51/26 18:36	08:16 16:48	08:48 15:05-15:24/19 16:41
25	05:59 21:44	06:46 20:48	07:35 19:39	07:24 08:25-08:51/26 17:34	08:17 16:47	08:48 15:06-15:26/20 16:42
26	06:00 21:43	06:48 20:46	07:36 19:37	07:26 08:25-08:52/27 17:32	08:19 16:46	08:49 15:07-15:26/19 16:43
27	06:02 21:41	06:49 20:44	07:38 19:34	07:28 08:23-08:51/28 17:30	08:20 16:45	08:49 15:07-15:26/19 16:43
28	06:03 21:40	06:51 20:42	07:40 19:32	07:30 08:23-08:51/28 17:28	08:22 16:44	08:49 15:08-15:26/18 16:44
29	06:05 21:38	06:52 20:40	07:41 09:22-09:31/9 19:30	07:31 08:24-08:52/28 17:26	08:23 16:43	08:49 15:08-15:26/18 16:45
30	06:06 21:37	06:54 19:09-19:21/12 20:38	07:43 09:17-09:34/17 19:28	07:33 08:24-08:52/28 17:25	08:25 16:43	08:50 15:09-15:27/18 16:46
31	06:08 21:35	06:55 19:05-19:22/17 20:35		07:35 08:24-08:51/27 17:23		08:50 15:10-15:27/17 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	27	29	441	962	138	447

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:49-16:06/17	08:24	07:32	07:23	06:20 19:47-20:12/25	05:36
	16:48 11:36-12:20/44	17:35	18:25	20:17	21:06	21:51
2	08:50 15:50-16:06/16	08:23	07:30	07:21	06:18 19:47-20:11/24	05:36 06:04-06:06/2
	16:49 11:37-12:21/44	17:36	18:26	20:19	21:08	21:52
3	08:49 15:51-16:07/16	08:21	07:28	07:19	06:16 19:47-20:10/23	05:35 06:03-06:06/3
	16:50 11:38-12:21/43	17:38	18:28	20:20	21:10	21:53
4	08:49 15:51-16:07/16	08:19	07:26	07:17	06:15 19:49-20:10/21	05:34 06:02-06:06/4
	16:51 11:37-12:21/44	17:40	18:30	20:22	21:11	21:54
5	08:49 15:52-16:07/15	08:18	07:24	07:14	06:13 19:50-20:09/19	05:33 06:02-06:06/4
	16:52 11:38-12:22/44	17:42	18:32	20:24	21:13	21:55
6	08:49 15:52-16:07/15	08:16	07:21 17:59-18:02/3	07:12	06:11 19:50-20:07/17	05:33 06:01-06:06/5
	16:54 11:39-12:21/42	17:44	18:33	20:25	21:14	21:56
7	08:48 15:53-16:08/15	08:15	07:19 17:56-18:06/10	07:10	06:09 19:53-20:06/13	05:32 06:01-06:07/6
	16:55 11:40-12:22/42	17:45	18:35	20:27	21:16	21:56
8	08:48 15:53-16:07/14	08:13	07:17 17:54-18:08/14	07:08	06:08 19:54-20:04/10	05:32 06:01-06:07/6
	16:56 11:40-12:22/42	17:47	18:37	20:29	21:17	21:57
9	08:48 15:55-16:08/13	08:11	07:15 17:52-18:08/16	07:05	06:06	05:31 06:00-06:07/7
	16:58 11:41-12:22/41	17:49	18:39	20:30	21:19	21:58
10	08:47 15:55-16:08/13	08:09	07:13 17:51-18:09/18	07:03	06:04	05:31 06:00-06:07/7
	16:59 11:42-12:22/40	17:51	18:40	20:32	21:21	21:59
11	08:46 15:56-16:07/11	08:08	07:10 17:51-18:09/18	07:01	06:03	05:31 06:00-06:08/8
	17:00 11:42-12:21/39	17:53	18:42	20:34	21:22	22:00
12	08:46 15:58-16:07/9	08:06	07:08 17:51-18:09/18	06:59	06:01	05:30 05:59-06:07/8
	17:02 11:44-12:22/38	17:54	18:44	20:35	21:24	22:00
13	08:45 16:00-16:06/6	08:04	07:06 17:50-18:08/18	06:57	05:59	05:30 05:59-06:07/8
	17:03 11:45-12:22/37	17:56	18:45	20:37	21:25	22:01
14	08:44 11:46-12:21/35	08:02	07:04 17:51-18:08/17	06:55	05:58	05:30 05:59-06:08/9
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:47-12:21/34	08:00	07:02 17:52-18:07/15	06:52	05:56	05:30 05:59-06:08/9
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:48-12:20/32	07:58	06:59 17:53-18:06/13	06:50	05:55	05:29 05:59-06:08/9
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:49-12:19/30	07:57	06:57 17:55-18:02/7	06:48	05:53	05:29 05:59-06:08/9
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:51-12:18/27	07:55	06:55	06:46	05:52	05:29 05:59-06:08/9
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:53-12:17/24	07:53	06:53	06:44 19:56-20:06/10	05:51	05:29 05:59-06:08/9
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:55-12:16/21	07:51	06:50	06:42 19:53-20:09/16	05:49	05:30 05:59-06:08/9
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:57-12:12/15	07:49	06:48	06:40 19:52-20:10/18	05:48	05:30 05:59-06:08/9
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 12:03-12:05/2	07:47	06:46	06:38 19:50-20:11/21	05:47	05:30 06:00-06:09/9
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:44	06:36 19:49-20:12/23	05:46	05:30 06:00-06:09/9
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41	06:34 19:48-20:13/25	05:44	05:30 06:00-06:09/9
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:41	06:39	06:32 19:47-20:13/26	05:43	05:31 06:01-06:10/9
	17:22	18:18	19:05	20:57	21:42	22:05
26	08:32	07:38	06:37	06:30 19:47-20:13/26	05:42	05:31 06:01-06:10/9
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36	06:35	06:28 19:46-20:13/27	05:41	05:32 06:02-06:11/9
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32	06:26 19:46-20:13/27	05:40	05:32 06:02-06:11/9
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24 19:47-20:13/26	05:39	05:33 06:03-06:11/8
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22 19:47-20:13/26	05:38	05:33 06:03-06:11/8
	17:31		20:14	21:05	21:48	22:04
31	08:26		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	936	0	167	271	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:12/8	06:09	06:57	07:44 18:30-18:48/18	07:37	08:26 15:38-15:49/11
	22:04	21:34	20:33	19:25	17:21	16:42 11:24-12:04/40
2	05:34 06:04-06:12/8	06:10	06:59	07:46 18:30-18:48/18	07:38	08:27 15:38-15:51/13
	22:04	21:32	20:31	19:23	17:19	16:41 11:25-12:05/40
3	05:35 06:05-06:12/7	06:12	07:00	07:48 18:29-18:47/18	07:40	08:29 15:38-15:51/13
	22:04	21:30	20:29	19:21	17:17	16:41 11:24-12:05/41
4	05:36 06:06-06:13/7	06:13 20:07-20:11/4	07:02	07:49 18:30-18:46/16	07:42	08:30 15:38-15:52/14
	22:03	21:29	20:27	19:19	17:16	16:40 11:25-12:07/42
5	05:37 06:07-06:13/6	06:15 20:04-20:15/11	07:03	07:51 18:30-18:45/15	07:44	08:31 15:38-15:53/15
	22:03	21:27	20:24	19:16	17:14	16:40 11:25-12:07/42
6	05:37 06:07-06:12/5	06:17 20:01-20:16/15	07:05	07:53 18:31-18:43/12	07:45	08:33 15:38-15:53/15
	22:02	21:25	20:22	19:14	17:12	16:39 11:25-12:07/42
7	05:38 06:08-06:13/5	06:18 20:00-20:18/18	07:06	07:54 18:33-18:41/8	07:47	08:34 15:39-15:54/15
	22:02	21:24	20:20	19:12	17:11	16:39 11:26-12:09/43
8	05:39 06:09-06:13/4	06:20 19:59-20:19/20	07:08	07:56	07:49	08:35 15:39-15:55/16
	22:01	21:22	20:18	19:10	17:09	16:39 11:26-12:09/43
9	05:40 06:10-06:13/3	06:21 19:57-20:19/22	07:10	07:57	07:50	08:36 15:39-15:55/16
	22:00	21:20	20:15	19:08	17:07	16:38 11:26-12:09/43
10	05:41 06:11-06:13/2	06:23 19:57-20:20/23	07:11	07:59	07:52	08:37 15:39-15:55/16
	22:00	21:18	20:13	19:05	17:06	16:38 11:26-12:10/44
11	05:42 06:12-06:13/1	06:24 19:55-20:20/25	07:13	08:01	07:54	08:38 15:39-15:56/17
	21:59	21:16	20:11	19:03	17:04	16:38 11:26-12:10/44
12	05:43	06:26 19:55-20:21/26	07:14	08:02	07:56	08:39 15:40-15:56/16
	21:58	21:14	20:09	19:01	17:03	16:38 11:26-12:11/45
13	05:44	06:27 19:54-20:20/26	07:16	08:04	07:57	08:40 15:40-15:57/17
	21:57	21:13	20:06	18:59	17:01	16:38 11:27-12:12/45
14	05:45	06:29 19:54-20:21/27	07:17	08:06	07:59	08:41 15:41-15:57/16
	21:56	21:11	20:04	18:57	17:00	16:38 11:27-12:12/45
15	05:46	06:30 19:54-20:20/26	07:19	08:07	08:01	08:42 15:41-15:58/17
	21:56	21:09	20:02	18:55	16:59	16:38 11:28-12:13/45
16	05:48	06:32 19:54-20:20/26	07:21	08:09	08:02	08:43 15:42-15:58/16
	21:55	21:07	20:00	18:52	16:57	16:38 11:28-12:13/45
17	05:49	06:34 19:53-20:19/26	07:22	08:11	08:04	08:44 15:42-15:59/17 11:11-11:13/2
	21:54	21:05	19:57	18:50	16:56	16:38 11:29-12:14/45
18	05:50	06:35 19:54-20:19/25	07:24	08:12	08:06	08:45 15:42-15:59/17 11:09-11:14/5
	21:52	21:03	19:55	18:48	16:55	16:39 11:28-12:14/46
19	05:51	06:37 19:54-20:18/24	07:25	08:14	08:07	08:45 15:43-16:00/17 11:09-11:15/6
	21:51	21:01	19:53	18:46	16:53	16:39 11:29-12:15/46
20	05:52	06:38 19:55-20:18/23	07:27	08:16	08:09 11:38-11:40/2	08:46 15:44-16:00/16 11:10-11:17/7
	21:50	20:59	19:50	18:44	16:52	16:39 11:30-12:16/46
21	05:54	06:40 19:55-20:16/21	07:28	08:18	08:11 11:33-11:48/15	08:47 15:44-16:00/16 11:10-11:17/7
	21:49	20:57	19:48	18:42	16:51	16:40 11:30-12:16/46
22	05:55	06:41 19:56-20:14/18	07:30	08:19	08:12 11:31-11:52/21	08:47 15:45-16:01/16 11:11-11:18/7
	21:48	20:55	19:46	18:40	16:50	16:40 11:31-12:17/46
23	05:56	06:43 19:57-20:12/15	07:32	08:21	08:14 11:29-11:53/24	08:48 15:45-16:01/16 11:11-11:18/7
	21:47	20:53	19:44	18:38	16:49	16:41 11:31-12:17/46
24	05:58	06:44 20:00-20:10/10	07:33	08:23	08:16 11:28-11:55/27	08:48 15:45-16:01/16 11:12-11:18/6
	21:45	20:50	19:41	18:36	16:48	16:41 11:31-12:17/46
25	05:59	06:46	07:35	07:24	08:17 11:27-11:57/30	08:48 15:46-16:03/17 11:13-11:18/5
	21:44	20:48	19:39	17:34	16:47	16:42 11:32-12:18/46
26	06:00	06:48	07:36 18:39-18:44/5	07:26	08:19 11:26-11:58/32	08:49 15:46-16:03/17 11:14-11:17/3
	21:43	20:46	19:37	17:32	16:46	16:43 11:33-12:18/45
27	06:02	06:49	07:38 18:36-18:47/11	07:28	08:20 11:26-12:00/34	08:49 15:47-16:03/16
	21:41	20:44	19:34	17:30	16:45	16:43 11:33-12:18/45
28	06:03	06:51	07:40 18:33-18:47/14	07:30	08:22 11:26-12:01/35	08:49 15:47-16:04/17
	21:40	20:42	19:32	17:28	16:44	16:44 11:33-12:19/46
29	06:05	06:52	07:41 18:32-18:48/16	07:31	08:23 15:40-15:46/6	08:49 15:47-16:04/17
	21:38	20:40	19:30	17:26	16:43 11:25-12:02/37	16:45 11:34-12:19/45
30	06:06	06:54	07:43 18:30-18:48/18	07:33	08:25 15:40-15:48/8	08:50 15:48-16:04/16
	21:37	20:38	19:28	17:25	16:43 11:25-12:03/38	16:46 11:34-12:19/45
31	06:08	06:55		07:35		08:50 15:48-16:05/17
	21:35	20:35		17:23		16:47 11:35-12:20/45
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	56	431	64	105	309	1919

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50 07:13-07:15/2	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48 07:11-07:15/4	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46 07:09-07:14/5	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44 07:07-07:13/6	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42 07:08-07:11/3	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	351	167	303	20	0	0

Table layout: For each day in each month the following matrix apply

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	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

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Assumptions for shadow calculations

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Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57		07:44	08:24-08:30/6	07:37		08:26	09:00-09:20/20
	22:04	21:34		20:33		19:25	08:09-08:11/2	17:21		16:42	
2	05:34	06:11		06:59		07:46	08:22-08:32/10	07:38		08:27	09:01-09:21/20
	22:04	21:32		20:31		19:23		17:19		16:42	
3	05:35	06:12		07:00		07:48	08:20-08:33/13	07:40		08:29	09:01-09:20/19
	22:03	21:30		20:29		19:21		17:17		16:41	
4	05:36	06:14		07:02		07:49	08:19-08:33/14	07:42		08:30	09:02-09:21/19
	22:03	21:29		20:27		19:19		17:16		16:40	
5	05:37	06:15		07:03		07:51	08:19-08:34/15	07:43		08:31	09:03-09:21/18
	22:03	21:27		20:24		19:16		17:14		16:40	
6	05:38	06:17		07:05		07:53	08:18-08:33/15	07:45		08:33	09:04-09:21/17
	22:02	21:25		20:22		19:14		17:12		16:40	
7	05:38	06:18		07:07		07:54	08:19-08:32/13	07:47		08:34	09:06-09:21/15
	22:02	21:24		20:20		19:12		17:11		16:39	
8	05:39	06:20		07:08		07:56	08:21-08:32/11	07:49		08:35	09:07-09:21/14
	22:01	21:22		20:18		19:10		17:09		16:39	
9	05:40	06:21		07:10		07:57	08:22-08:29/7	07:50		08:36	09:08-09:21/13
	22:00	21:20		20:15		19:08		17:07		16:39	
10	05:41	06:23		07:11		07:59	08:50-08:59/9	07:52		08:37	09:09-09:21/12
	22:00	21:18		20:13		19:05	08:24-08:26/2	17:06		16:38	
11	05:42	06:24		07:13		08:01	08:48-09:01/13	07:54		08:38	09:10-09:21/11
	21:59	21:16		20:11		19:03		17:04		16:38	
12	05:43	06:26		07:14	19:17-19:25/8	08:02	08:47-09:02/15	07:56		08:39	09:11-09:21/10
	21:58	21:14		20:09		19:01		17:03		16:38	
13	05:44	06:27		07:16	19:15-19:26/11	08:04	08:45-09:02/17	07:57		08:40	09:12-09:21/9
	21:57	21:13		20:06		18:59	18:24-18:25/1	17:01		16:38	
14	05:45	06:29		07:18	19:13-19:27/14	08:06	08:44-09:03/19	07:59		08:41	09:13-09:21/8
	21:56	21:11		20:04		18:57	18:21-18:28/7	17:00		16:38	
15	05:47	06:30		07:19	19:12-19:27/15	08:07	08:44-09:03/19	08:01		08:42	09:14-09:21/7
	21:55	21:09		20:02		18:55	18:20-18:27/7	16:59		16:38	
16	05:48	06:32		07:21	19:11-19:27/16	08:09	08:44-09:03/19	08:02		08:43	09:15-09:21/6
	21:54	21:07		20:00		18:53	18:19-18:24/5	16:57		16:38	
17	05:49	06:34		07:22	19:11-19:27/16	08:11	08:44-09:02/18	08:04		08:44	09:16-09:21/5
	21:53	21:05		19:57		18:50	18:19-18:22/3	16:56		16:39	
18	05:50	06:35		07:24	19:10-19:25/15	08:12	08:44-09:02/18	08:06		08:45	09:16-09:20/4
	21:52	21:03		19:55		18:48		16:55		16:39	
19	05:51	06:37		07:25	19:11-19:25/14	08:14	08:45-09:01/16	08:07	09:05-09:09/4	08:45	09:17-09:18/1
	21:51	21:01		19:53		18:46		16:53		16:39	
20	05:53	06:38		07:27	19:12-19:23/11	08:16	08:46-09:00/14	08:09	09:04-09:12/8	08:46	
	21:50	20:59		19:50		18:44		16:52		16:39	
21	05:54	06:40		07:29	19:13-19:20/7	08:18	08:48-08:57/9	08:11	09:03-09:14/11	08:47	
	21:49	20:57		19:48		18:42		16:51		16:40	
22	05:55	06:41		07:30		08:19		08:12	09:02-09:16/14	08:47	
	21:48	20:55		19:46		18:40		16:50		16:40	
23	05:56	06:43	07:11-07:15/4	07:32		08:21		08:14	09:01-09:16/15	08:48	
	21:47	20:53		19:44		18:38		16:49		16:41	
24	05:58	06:45	07:11-07:17/6	07:33		08:23		08:16	09:01-09:17/16	08:48	09:19-09:20/1
	21:45	20:50		19:41		18:36		16:48		16:41	
25	05:59	06:46	07:12-07:17/5	07:35		07:24		08:17	09:02-09:18/16	08:48	09:22-09:24/2
	21:44	20:48		19:39		17:34		16:47		16:42	09:20-09:21/1
26	06:01	06:48	07:14-07:18/4	07:36		07:26		08:19	09:01-09:18/17	08:49	09:20-09:25/5
	21:43	20:46		19:37		17:32		16:46		16:43	
27	06:02	06:49	07:15-07:17/2	07:38	08:05-08:12/7	07:28		08:20	09:02-09:19/17	08:49	09:20-09:26/6
	21:41	20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51		07:40	08:04-08:12/8	07:30		08:22	09:02-09:20/18	08:49	09:20-09:26/6
	21:40	20:42		19:32		17:28		16:44		16:44	
29	06:05	06:52		07:41	08:06-08:12/6	07:31		08:23	09:01-09:19/18	08:49	09:20-09:27/7
	21:38	20:40		19:30		17:27		16:44		16:45	
30	06:06	06:54		07:43	08:08-08:12/4	07:33		08:25	09:01-09:20/19	08:49	09:20-09:28/8
	21:37	20:38		19:28		17:25		16:43		16:46	
31	06:08	06:56				07:35				08:50	09:20-09:29/9
	21:35	20:35				17:23				16:47	
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	21		152		317		173		273	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 08:57-09:09/12	07:32 17:35-17:51/16	07:23	06:20	05:36 06:16-06:35/19
	16:48	17:35	18:25	20:17	21:06	21:50 20:17-20:40/23
2	08:49	08:22 08:58-09:08/10	07:30 17:35-17:51/16	07:21	06:18	05:36 06:17-06:36/19
	16:49	17:36	18:26	20:19	21:08	21:52 20:17-20:42/25
3	08:49	08:21 08:59-09:06/7	07:28 17:36-17:50/14	07:19	06:16	05:35 06:16-06:35/19
	16:50	17:38	18:28	20:20	21:09	21:53 20:16-20:43/27
4	08:49	08:19	07:26 17:37-17:49/12	07:17	06:15	05:34 06:16-06:35/19
	16:51	17:40	18:30	20:22	21:11	21:54 20:15-20:43/28
5	08:49	08:18	07:24 17:39-17:46/7	07:14	06:13	05:34 06:17-06:35/18
	16:53	17:42	18:32	20:24	21:13	21:55 20:15-20:44/29
6	08:49	08:16	07:21	07:12	06:11	05:33 06:17-06:35/18
	16:54	17:44	18:33	20:25	21:14	21:55 20:14-20:45/31
7	08:48	08:14	07:19	07:10	06:09	05:32 06:18-06:35/17
	16:55	17:45	18:35	20:27	21:16	21:56 20:14-20:46/32
8	08:48	08:13	07:17	07:08	06:08	05:32 06:19-06:36/17
	16:56	17:47	18:37	20:29	21:17	21:57 20:13-20:46/33
9	08:47	08:11	07:15	07:05	06:06	05:31 06:18-06:35/17
	16:58	17:49	18:39	20:30	21:19	21:58 20:14-20:47/33
10	08:47	08:09	07:13	07:03	06:04	05:31 06:19-06:35/16
	16:59	17:51	18:40	20:32	21:21	21:59 20:14-20:48/34
11	08:46	08:08	07:10	07:01	06:03	05:31 06:20-06:35/15
	17:00	17:53	18:42	20:33	21:22	22:00 20:14-20:49/35
12	08:46	08:06	07:08	06:59	06:01	05:30 06:19-06:35/16
	17:02	17:54	18:44	20:35	21:24	22:00 20:13-20:48/35
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:35/15
	17:03	17:56	18:45	20:37	21:25	22:01 20:13-20:49/36
14	08:44	08:02 08:26-08:28/2	07:04	06:55	05:58	05:30 06:20-06:35/15
	17:05	17:58	18:47	20:38	21:27	22:01 20:14-20:49/35
15	08:44	08:00 08:24-08:27/3	07:02	06:52	05:56	05:30 06:21-06:35/14
	17:06	18:00	18:49	20:40	21:28	22:02 20:14-20:50/36
16	08:43	07:58 08:22-08:26/4	06:59	06:50	05:55	05:30 06:21-06:35/14
	17:08	18:02	18:50	20:42	21:30	22:03 20:14-20:50/36
17	08:42	07:56	06:57	06:48	05:53	05:29 06:22-06:35/13
	17:09	18:03	18:52	20:43	21:31	22:03 20:14-20:51/37
18	08:41	07:55	06:55 07:17-07:19/2	06:46	05:52	05:29 06:22-06:35/13
	17:11	18:05	18:54	20:45	21:32	22:03 20:14-20:51/37
19	08:40	07:53	06:53 07:15-07:20/5	06:44	05:51 06:21-06:29/8	05:30 06:22-06:35/13
	17:12	18:07	18:55	20:47	21:34	22:04 20:14-20:51/37
20	08:39	07:51	06:50 07:13-07:20/7	06:42	05:49 06:20-06:30/10	05:30 06:22-06:35/13
	17:14	18:09	18:57	20:48	21:35	22:04 20:14-20:51/37
21	08:38	07:49	06:48 07:10-07:19/9	06:40	05:48 06:19-06:32/13	05:30 06:22-06:35/13
	17:16	18:11	18:59	20:50	21:37	22:04 20:14-20:51/37
22	08:37	07:47 08:10-08:11/1	06:46 07:08-07:18/10	06:38	05:47 06:17-06:32/15	05:30 06:23-06:36/13
	17:17	18:12	19:00	20:52	21:38	22:04 20:15-20:52/37
23	08:36 09:03-09:04/1	07:45 17:41-17:46/5	06:44 07:10-07:17/7	06:36	05:46 06:17-06:32/15	05:30 06:23-06:36/13
	17:19	18:14 08:08-08:12/4	19:02 07:06-07:09/3	20:53	21:39	22:05 20:15-20:52/37
24	08:35 09:02-09:06/4	07:43 17:39-17:49/10	06:41 07:04-07:09/5	06:34	05:44 06:16-06:33/17	05:30 06:23-06:36/13
	17:21	18:16 08:06-08:12/6	19:04	20:55	21:41	22:05 20:15-20:52/37
25	08:34 09:00-09:06/6	07:40 17:37-17:51/14	06:39 07:01-07:07/6	06:32	05:43 06:16-06:34/18	05:31 06:24-06:37/13
	17:22	18:18 08:04-08:12/8	19:05	20:56	21:42	22:05 20:16-20:53/37
26	08:32 08:59-09:08/9	07:38 17:36-17:52/16	06:37 07:02-07:04/2	06:30	05:42 06:16-06:34/18	05:31 06:23-06:37/14
	17:24	18:19 08:02-08:12/10	19:07	20:58	21:43	22:05 20:16-20:53/37
27	08:31 08:57-09:08/11	07:36 17:35-17:51/16	06:34	06:28	05:41 06:15-06:34/19	05:32 06:24-06:38/14
	17:26	18:21 08:03-08:11/8	19:09	21:00	21:45 20:25-20:31/6	22:05 20:16-20:52/36
28	08:30 08:56-09:09/13	07:34 17:35-17:51/16	06:32	06:26	05:40 06:15-06:34/19	05:32 06:24-06:38/14
	17:28	18:23 08:04-08:08/4	19:10	21:01	21:46 20:22-20:34/12	22:05 20:17-20:53/36
29	08:28 08:55-09:09/14		07:30	06:24	05:39 06:16-06:35/19	05:33 06:24-06:39/15
	17:29		20:12	21:03	21:47 20:21-20:37/16	22:05 20:16-20:52/36
30	08:27 08:55-09:09/14		07:28	06:22	05:38 06:16-06:35/19	05:33 06:24-06:39/15
	17:31		20:14	21:05	21:48 20:19-20:38/19	22:04 20:17-20:53/36
31	08:25 08:56-09:09/13		07:25		05:37 06:16-06:35/19	
	17:33		20:15		21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	85	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 08:32-08:41/9	08:43
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 08:34-08:40/6	08:44
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 08:36-08:40/4	08:45
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 08:37-08:38/1	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09	08:46
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14	08:48
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25	08:49
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April	May		June
1	08:50	08:24		07:32	17:12-17:37/25	07:23	06:20		05:36
	16:48	17:35		18:25		20:17	21:06		21:50
2	08:49	08:22		07:30	17:12-17:37/25	07:21	06:18		05:36
	16:49	17:36		18:26		20:19	21:08		21:52
3	08:49	08:21		07:28	17:13-17:36/23	07:19	06:16		05:35
	16:50	17:38		18:28		20:20	21:09		21:53
4	08:49	08:19		07:26	17:14-17:36/22	07:17	06:15		05:34
	16:51	17:40		18:30	07:49-07:51/2	20:22	21:11		21:54
5	08:49	08:18		07:24	17:14-17:34/20	07:14	06:13		05:33
	16:52	17:42		18:32	07:46-07:50/4	20:24	21:13		21:55
6	08:49	08:16		07:21	17:16-17:32/16	07:12	06:11	06:36-06:39/3	05:33
	16:54	17:44		18:33	07:44-07:49/5	20:25	21:14		21:55
7	08:48	08:14		07:19	17:18-17:30/12	07:10	06:09	06:34-06:40/6	05:32
	16:55	17:45		18:35	07:43-07:48/5	20:27	21:16		21:56
8	08:48	08:13		07:17	17:22-17:26/4	07:08	06:08	06:32-06:41/9	05:32
	16:56	17:47		18:37		20:28	21:17		21:57
9	08:47	08:11		07:15		07:05	06:06	06:31-06:42/11	05:31
	16:58	17:49		18:39		20:30	21:19		21:58
10	08:47	08:09		07:13		07:03	06:04	06:29-06:42/13	05:31
	16:59	17:51		18:40		20:32	21:20		21:59
11	08:46	08:08	08:32-08:33/1	07:10		07:01	06:03	06:29-06:42/13	05:31
	17:00	17:53		18:42		20:33	21:22		22:00
12	08:46	08:06	08:30-08:34/4	07:08		06:59	06:01	06:28-06:42/14	05:30
	17:02	17:54		18:44		20:35	21:24		22:00
13	08:45	08:04	08:28-08:34/6	07:06		06:57	05:59	06:28-06:42/14	05:30
	17:03	17:56		18:45		20:37	21:25		22:01
14	08:44	08:02	08:26-08:34/8	07:04		06:55	05:58	06:28-06:41/13	05:30
	17:05	17:58		18:47		20:38	21:27		22:01
15	08:44	08:00	08:24-08:34/10	07:02		06:52	05:56	06:29-06:41/12	05:30
	17:06	18:00		18:49		20:40	21:28		22:02
16	08:43	07:58	08:23-08:33/10	06:59		06:50	05:55	06:30-06:40/10	05:30
	17:08	18:02		18:50		20:42	21:30		22:02
17	08:42	07:56	08:25-08:31/6	06:57		06:48	05:53	06:30-06:39/9	05:29
	17:09	18:03		18:52		20:43	21:31		22:03
18	08:41	07:54		06:55		06:46	05:52	06:32-06:37/5	05:29
	17:11	18:05		18:54		20:45	21:32		22:03
19	08:40	07:53		06:53		06:44	05:51		05:29
	17:12	18:07		18:55		20:47	21:34		22:04
20	08:39	07:51	17:22-17:28/6	06:50		06:42	05:49		05:30
	17:14	18:09		18:57		20:48	21:35		22:04
21	08:38	07:49	17:18-17:31/13	06:48		06:40	05:48		05:30
	17:16	18:11		18:59		20:50	21:37		22:04
22	08:37	07:47	17:17-17:33/16	06:46		06:38	05:47		05:30
	17:17	18:12		19:00		20:52	21:38		22:04
23	08:36	07:45	17:15-17:35/20	06:44	07:06-07:07/1	06:36	05:46		05:30
	17:19	18:14	08:08-08:09/1	19:02		20:53	21:39		22:05
24	08:35	07:43	17:14-17:36/22	06:41	07:04-07:07/3	06:34	05:44		05:30
	17:21	18:16		19:04		20:55	21:41		22:05
25	08:33	07:40	17:14-17:37/23	06:39	07:01-07:06/5	06:32	05:43		05:31
	17:22	18:18		19:05	18:38-18:40/2	20:56	21:42		22:05
26	08:32	07:38	17:13-17:38/25	06:37	06:59-07:04/5	06:30	05:42		05:31
	17:24	18:19		19:07	18:40-18:42/2	20:58	21:43		22:05
27	08:31	07:36	17:12-17:37/25	06:34	06:57-06:58/1	06:28	05:41		05:32
	17:26	18:21		19:09		21:00	21:45		22:05
28	08:30	07:34	17:12-17:37/25	06:32	06:55-06:57/2	06:26	05:40		05:32
	17:28	18:23		19:10		21:01	21:46		22:05
29	08:28			07:30		06:24	05:39		05:33
	17:29			20:12		21:03	21:47		22:05
30	08:27			07:28		06:22	05:38		05:33
	17:31			20:14		21:05	21:48		22:04
31	08:25			07:25			05:37		
	17:33			20:15			21:49		
Potential sun hours	262	279		367		415	482		495
Sum of minutes with flicker	0	221		184		0	132		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34		06:09	06:38-06:52/14	06:57		07:44		07:36	08:26
	22:04		21:34		20:33		19:25		17:21	16:42
2	05:34		06:11	06:39-06:53/14	06:59		07:46		07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35		06:12	06:40-06:52/12	07:00		07:48		07:40	08:29
	22:03		21:30		20:29		19:21		17:17	16:41
4	05:36		06:13	06:41-06:51/10	07:02		07:49		07:42	08:30
	22:03		21:29		20:27		19:19		17:16	16:40
5	05:37		06:15	06:43-06:51/8	07:03		07:51		07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37		06:17	06:44-06:49/5	07:05		07:52	17:55-18:05/10	07:45	08:33
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38		06:18	06:46-06:47/1	07:06		07:54	17:53-18:07/14	07:47	08:34
	22:02		21:23		20:20		19:12	08:19-08:25/6	17:11	16:39
8	05:39		06:20		07:08		07:56	17:51-18:09/18	07:49	08:35
	22:01		21:22		20:18		19:10	08:21-08:26/5	17:09	16:39
9	05:40		06:21		07:10		07:57	17:48-18:09/21	07:50	08:36
	22:00		21:20		20:15		19:08	08:22-08:25/3	17:07	16:38
10	05:41		06:23		07:11		07:59	17:47-18:10/23	07:52	08:37
	22:00		21:18		20:13		19:05	08:24-08:25/1	17:06	16:38
11	05:42		06:24		07:13		08:01	17:47-18:11/24	07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43		06:26		07:14		08:02	17:45-18:10/25	07:56	08:39
	21:58		21:14		20:09		19:01		17:03	16:38
13	05:44		06:27		07:16		08:04	17:45-18:10/25	07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45		06:29		07:17		08:06	17:45-18:10/25	07:59	08:41
	21:56		21:11		20:04		18:57		17:00	16:38
15	05:46		06:30		07:19	07:44-07:45/1	08:07	17:45-18:10/25	08:01	08:42
	21:55		21:09		20:02		18:55		16:59	16:38
16	05:48		06:32		07:21	07:45-07:47/2	08:09	17:44-18:09/25	08:02	08:43
	21:54		21:07		19:59		18:52		16:57	16:38
17	05:49		06:34		07:22	07:47-07:52/5	08:11	17:45-18:08/23	08:04	08:44
	21:53		21:05		19:57	19:28-19:31/3	18:50		16:56	16:38
18	05:50		06:35		07:24	07:49-07:54/5	08:12	17:46-18:07/21	08:06	08:45
	21:52		21:03		19:55	19:26-19:28/2	18:48	08:38-08:39/1	16:55	16:39
19	05:51		06:37		07:25	07:50-07:54/4	08:14	17:47-18:06/19	08:07	08:45
	21:51		21:01		19:53	19:25-19:26/1	18:46		16:53	16:39
20	05:52		06:38		07:27	07:52-07:54/2	08:16	17:47-18:03/16	08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28		08:17	17:50-18:01/11	08:11	08:46
	21:49		20:57		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30		08:19	17:54-17:57/3	08:12	08:47
	21:48		20:55		19:46		18:40		16:50	16:40
23	05:56		06:43		07:32		08:21		08:14	08:47
	21:46		20:52		19:44		18:38		16:49	16:41
24	05:58		06:44		07:33		08:23	08:57-09:00/3	08:15	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59	06:45-06:46/1	06:46		07:35		07:24	07:55-08:02/7	08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00	06:42-06:49/7	06:48		07:36		07:26	07:54-08:04/10	08:19	08:49
	21:42		20:46		19:37		17:32		16:46	16:43
27	06:02	06:40-06:50/10	06:49		07:38		07:28	07:54-08:03/9	08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03	06:40-06:51/11	06:51		07:40		07:29	07:56-08:04/8	08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:05	06:39-06:52/13	06:52		07:41		07:31	07:58-08:04/6	08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06	06:38-06:52/14	06:54		07:43		07:33	08:00-08:03/3	08:25	08:49
	21:37		20:38		19:28		17:25		16:43	16:46
31	06:08	06:39-06:53/14	06:55				07:35			08:49
	21:35		20:35				17:23			16:47
Potential sun hours	498		451		380		333		269	248
Sum of minutes with flicker	70		64		25		390		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:12-15:51/39	08:24 17:01-17:05/4	07:32	07:23	06:20	05:36
	16:48	17:35 16:20-16:55/35	18:25	20:17	21:06	21:51
2	08:50 15:13-15:52/39	08:23 17:00-17:07/7	07:30	07:21 19:50-19:53/3	06:18	05:36
	16:49	17:36 16:20-16:55/35	18:26	20:19	21:08	21:52
3	08:49 15:14-15:53/39	08:21 17:00-17:09/9	07:28	07:19 19:48-19:55/7	06:16	05:35
	16:50	17:38 16:19-16:56/37	18:28	20:20	21:10	21:53
4	08:49 15:14-15:52/38	08:19 17:01-17:11/10	07:26	07:17 19:47-19:57/10	06:15	05:34
	16:51	17:40 16:19-16:57/38	18:30	20:22	21:11	21:54
5	08:49 15:14-15:53/39	08:18 17:01-17:13/12	07:24	07:14 19:46-19:58/12	06:13	05:33
	16:53	17:42 16:19-16:57/38	18:32	20:24	21:13	21:55
6	08:49 15:14-15:53/39	08:16 17:01-17:15/14	07:21	07:12 19:44-19:59/15	06:11	05:33
	16:54	17:44 16:19-16:57/38	18:33	20:25	21:14	21:56
7	08:48 15:15-15:54/39	08:15 17:02-17:15/13	07:19	07:10 19:44-20:01/17	06:09	05:32
	16:55	17:45 16:19-16:57/38	18:35	20:27	21:16	21:57
8	08:48 15:15-15:54/39	08:13 17:04-17:15/11	07:17	07:08 19:44-20:03/19	06:08	05:32
	16:56	17:47 16:20-16:58/38	18:37	20:29	21:17	21:57
9	08:48 15:16-15:55/39	08:11 17:05-17:13/8	07:15	07:05 19:44-20:03/19	06:06	05:31
	16:58	17:49 16:20-16:58/38	18:39	20:30	21:19	21:58
10	08:47 15:16-15:55/39	08:09 16:20-16:57/37	07:13	07:03 19:44-20:03/19	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47 15:17-15:55/38	08:08 16:20-16:57/37	07:11 18:14-18:17/3	07:01 19:44-20:01/17	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46 15:18-15:56/38	08:06 16:21-16:56/35	07:08 18:13-18:19/6	06:59 19:45-19:59/14	06:01	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 15:18-15:56/38	08:04 16:21-16:56/35	07:06 18:11-18:20/9	06:57 19:47-19:58/11	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45 15:19-15:56/37	08:02 16:22-16:55/33	07:04 18:11-18:22/11	06:55 19:50-19:54/4	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 15:20-15:56/36	08:00 16:23-16:54/31	07:02 18:11-18:24/13	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 15:20-15:56/36	07:58 16:24-16:53/29	06:59 18:11-18:26/15	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 15:21-15:56/35	07:57 16:26-16:52/26	06:57 18:11-18:25/14	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 15:22-15:56/34	07:55 16:28-16:50/22	06:55 18:13-18:24/11	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 15:23-15:56/33	07:53 16:30-16:48/18	06:53 18:15-18:22/7	06:44	05:51	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 15:24-15:56/32	07:51 16:33-16:45/12	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 15:24-15:55/31	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:30-16:38/8	07:47	06:46	06:38	05:47	05:30
	17:17 15:26-15:55/29	18:12	19:00	20:52	21:38	22:05
23	08:36 16:28-16:42/14	07:45	06:44	06:36	05:46	05:30
	17:19 15:27-15:54/27	18:14	19:02	20:53	21:40	22:05
24	08:35 16:26-16:45/19	07:43	06:41	06:34	05:44	05:30
	17:21 15:29-15:54/25	18:16	19:04	20:55	21:41	22:05
25	08:34 16:24-16:46/22	07:41	06:39	06:32	05:43	05:31
	17:22 15:30-15:52/22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:24-16:48/24	07:39	06:37	06:30	05:42	05:31
	17:24 15:33-15:51/18	18:19	19:07	20:58	21:43	22:05
27	08:31 16:22-16:49/27	07:36	06:35	06:28	05:41	05:32
	17:26 15:35-15:48/13	18:21	19:09	21:00	21:45	22:05
28	08:30 16:22-16:51/29	07:34	06:32	06:26	05:40	05:32
	17:28 15:40-15:45/5	18:23	19:10	21:01	21:46	22:05
29	08:28 16:21-16:52/31		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:21-16:53/32		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 17:01-17:03/2		07:26		05:37	
	17:33 16:20-16:54/34		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1158	738	89	167	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:44-20:01/17	07:44 18:52-18:58/6	07:37 16:38-16:40/2	08:26 14:59-15:37/38
	22:04	21:34	20:33	19:25	17:21 15:49-16:27/38	16:42
2	05:34	06:11	06:59 19:42-20:01/19	07:46 18:52-18:56/4	07:38 16:35-16:43/8	08:27 15:00-15:38/38
	22:04	21:32	20:31	19:23	17:19 15:49-16:27/38	16:41
3	05:35	06:12	07:00 19:42-20:01/19	07:48 18:53-18:54/1	07:40 16:32-16:44/12	08:29 14:59-15:38/39
	22:04	21:30	20:29	19:21	17:17 15:49-16:27/38	16:41
4	05:36	06:14	07:02 19:41-20:00/19	07:49	07:42 16:31-16:45/14	08:30 15:00-15:39/39
	22:03	21:29	20:27	19:19	17:16 15:48-16:27/39	16:40
5	05:37	06:15	07:03 19:41-19:58/17	07:51	07:44 16:31-16:44/13	08:31 15:00-15:39/39
	22:03	21:27	20:24	19:16	17:14 15:49-16:27/38	16:40
6	05:37	06:17	07:05 19:40-19:55/15	07:53	07:45 16:30-16:42/12	08:33 15:00-15:39/39
	22:02	21:25	20:22	19:14	17:12 15:49-16:27/38	16:39
7	05:38	06:18	07:07 19:41-19:54/13	07:54	07:47 16:30-16:41/11	08:34 15:01-15:40/39
	22:02	21:24	20:20	19:12	17:11 15:49-16:27/38	16:39
8	05:39	06:20	07:08 19:41-19:51/10	07:56	07:49 16:31-16:39/8	08:35 15:02-15:40/38
	22:01	21:22	20:18	19:10	17:09 15:50-16:26/36	16:39
9	05:40	06:21	07:10 19:42-19:49/7	07:57	07:51 16:31-16:38/7	08:36 15:02-15:41/39
	22:00	21:20	20:15	19:08	17:07 15:50-16:26/36	16:39
10	05:41	06:23	07:11 19:43-19:46/3	07:59	07:52 16:32-16:36/4	08:37 15:02-15:41/39
	22:00	21:18	20:13	19:05	17:06 15:51-16:26/35	16:38
11	05:42	06:24	07:13	08:01	07:54 16:33-16:35/2	08:38 15:03-15:41/38
	21:59	21:16	20:11	19:03	17:04 15:52-16:26/34	16:38
12	05:43	06:26	07:14	08:02	07:56 15:52-16:24/32	08:39 15:03-15:42/39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04	07:57 15:53-16:24/31	08:40 15:03-15:42/39
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:18	08:06	07:59 15:54-16:23/29	08:41 15:04-15:42/38
	21:57	21:11	20:04	18:57	17:00 15:12-15:17/5	16:38
15	05:46	06:30	07:19	08:07	08:01 15:55-16:22/27	08:42 15:05-15:43/38
	21:56	21:09	20:02	18:55	16:59 15:08-15:21/13	16:38
16	05:48	06:32	07:21	08:09	08:03 15:57-16:21/24	08:43 15:05-15:44/39
	21:55	21:07	20:00	18:53	16:57 15:06-15:24/18	16:38
17	05:49	06:34	07:22	08:11	08:04 15:58-16:20/22	08:44 15:06-15:44/38
	21:54	21:05	19:57	18:50	16:56 15:04-15:26/22	16:38
18	05:50	06:35	07:24	08:12	08:06 16:00-16:19/19	08:45 15:06-15:44/38
	21:53	21:03	19:55	18:48	16:55 15:03-15:28/25	16:39
19	05:51	06:37	07:25	08:14	08:08 16:02-16:16/14	08:45 15:07-15:45/38
	21:51	21:01	19:53	18:46	16:53 15:01-15:28/27	16:39
20	05:52	06:38	07:27	08:16	08:09 16:05-16:14/9	08:46 15:07-15:46/39
	21:50	20:59	19:50	18:44	16:52 15:01-15:30/29	16:39
21	05:54	06:40	07:29	08:18	08:11 15:00-15:31/31	08:47 15:07-15:45/38
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 17:03-17:16/13	08:12 15:00-15:32/32	08:47 15:08-15:46/38
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 17:00-17:19/19	08:14 14:59-15:32/33	08:48 15:08-15:47/39
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 18:59-19:04/5	08:23 16:57-17:21/24	08:16 14:59-15:33/34	08:48 15:10-15:48/38
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:56-19:06/10	07:24 15:56-16:22/26	08:17 14:59-15:34/35	08:48 15:10-15:48/38
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:54-19:07/13	07:26 15:54-16:24/30	08:19 14:58-15:34/36	08:49 15:10-15:48/38
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:53-19:08/15	07:28 15:52-16:24/32	08:20 14:59-15:35/36	08:49 15:10-15:48/38
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:52-19:05/13	07:30 15:51-16:25/34	08:22 14:59-15:36/37	08:49 15:10-15:49/39
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:50-19:56/6	07:41 18:52-19:03/11	07:31 15:51-16:25/34	08:23 14:59-15:36/37	08:49 15:11-15:49/38
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:48-19:59/11	07:43 18:51-19:00/9	07:33 15:50-16:26/36	08:25 14:59-15:37/38	08:50 15:11-15:50/39
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:45-19:59/14		07:35 15:50-16:27/37		08:50 15:12-15:50/38
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	215	296	1196	1192

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:36-15:57/21	08:24	07:32 17:51-17:59/8	07:23	06:20 20:36-20:38/2	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 15:37-15:57/20	08:23	07:30 17:52-18:01/9	07:21	06:18 20:35-20:40/5	05:36
	16:49	17:36	18:27	20:19	21:08	21:52
3	08:49 15:38-15:58/20	08:21	07:28 17:53-18:01/8	07:19	06:16 20:34-20:41/7	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49 15:38-15:57/19	08:19	07:26	07:17	06:15 20:34-20:43/9	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 15:40-15:58/18	08:18	07:24	07:14	06:13 20:34-20:44/10	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 16:18-16:20/2	08:16	07:21	07:12	06:11 20:34-20:45/11	05:33
	16:54 15:40-15:57/17	17:44	18:33	20:25	21:14	21:56
7	08:48 16:18-16:22/4	08:15	07:19	07:10	06:09 20:34-20:47/13	05:32
	16:55 15:41-15:58/17	17:45	18:35	20:27	21:16	21:57
8	08:48 16:17-16:23/6	08:13	07:17	07:08	06:08 20:34-20:48/14	05:32
	16:56 15:42-15:57/15	17:47	18:37	20:29	21:18	21:57
9	08:48 16:17-16:25/8	08:11	07:15	07:06	06:06 20:35-20:49/14	05:31
	16:58 15:44-15:57/13	17:49	18:39	20:30	21:19	21:58
10	08:47 16:16-16:26/10	08:09	07:13	07:03	06:04 20:36-20:48/12	05:31
	16:59 15:45-15:56/11	17:51	18:40	20:32	21:21	21:59
11	08:47 16:16-16:27/11	08:08	07:11	07:01	06:03 20:38-20:47/9	05:31
	17:00 15:47-15:55/8	17:53	18:42	20:34	21:22	22:00
12	08:46 16:16-16:29/13	08:06	07:08 18:18-18:19/1	06:59	06:01 20:53-20:54/1	05:30
	17:02 15:51-15:53/2	17:55	18:44	20:35	21:24 20:39-20:45/6	22:00
13	08:45 16:16-16:31/15	08:04	07:06 18:16-18:20/4	06:57	05:59 20:54-20:56/2	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45 16:16-16:32/16	08:02	07:04 18:15-18:22/7	06:55	05:58 20:55-20:57/2	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 16:16-16:34/18	08:00	07:02 18:14-18:24/10	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 16:16-16:35/19	07:58	06:59 18:14-18:26/12	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 16:16-16:37/21	07:57	06:57 18:14-18:27/13	06:48	05:54	05:29
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 16:16-16:39/23	07:55	06:55 18:14-18:28/14	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40 16:16-16:39/23	07:53	06:53 18:16-18:27/11	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 16:17-16:40/23	07:51	06:50 18:18-18:25/7	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:16-16:40/24	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:17-16:40/23	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 16:17-16:41/24	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:18-16:41/23	07:43	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:50-16:51/1	07:41	06:39	06:32	05:43	05:31
	17:22 16:18-16:40/22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:51-16:54/3	07:39 17:52-17:54/2	06:37	06:30	05:42	05:31
	17:24 16:19-16:40/21	18:20	19:07	20:58	21:43	22:05
27	08:31 16:50-16:55/5	07:36 17:52-17:56/4	06:35	06:28	05:41	05:32
	17:26 16:20-16:39/19	18:21	19:09	21:00	21:45	22:05
28	08:30 16:51-16:57/6	07:34 17:51-17:57/6	06:32	06:26	05:40	05:32
	17:28 16:21-16:39/18	18:23	19:10	21:01	21:46	22:05
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33
	17:29 16:22-16:38/16		20:12	21:03	21:47	22:05
30	08:27 16:53-17:01/8		07:28	06:22	05:38	05:33
	17:31 16:25-16:37/12		20:14	21:05	21:48	22:05
31	08:26 16:55-17:01/6		07:26		05:37	
	17:33 16:27-16:35/8		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	639	12	104	0	117	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 20:49-20:56/7	06:57	07:44 18:56-18:58/2	07:37	08:26 15:58-16:09/11
	22:04	21:34	20:33	19:25	17:21	16:42 15:29-15:37/8
2	05:34	06:11 20:48-20:58/10	06:59	07:46	07:38	08:27 15:59-16:09/10
	22:04	21:32	20:31	19:23	17:19	16:41 15:29-15:39/10
3	05:35	06:12 20:46-20:59/13	07:00	07:48	07:40	08:29 16:00-16:08/8
	22:04	21:30	20:29	19:21	17:17	16:41 15:27-15:40/13
4	05:36	06:14 20:45-20:59/14	07:02	07:49	07:42	08:30 16:02-16:08/6
	22:03	21:29	20:27	19:19	17:16	16:40 15:27-15:42/15
5	05:37	06:15 20:45-20:58/13	07:03	07:51	07:44	08:31 16:03-16:07/4
	22:03	21:27	20:24	19:16	17:14	16:40 15:27-15:43/16
6	05:37	06:17 20:44-20:56/12	07:05	07:53	07:45	08:33 16:04-16:06/2
	22:02	21:25	20:22	19:14	17:12	16:39 15:26-15:43/17
7	05:38	06:18 20:44-20:55/11	07:07	07:54	07:47	08:34 15:27-15:45/18
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20 20:43-20:53/10	07:08	07:56	07:49	08:35 15:27-15:45/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 20:43-20:51/8	07:10	07:58	07:51	08:36 15:26-15:46/20
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23 20:44-20:50/6	07:11	07:59 18:29-18:34/5	07:52	08:37 15:26-15:46/20
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24 20:44-20:48/4	07:13	08:01 18:26-18:36/10	07:54 16:26-16:33/7	08:38 15:26-15:47/21
	21:59	21:16	20:11	19:03	17:04 15:58-16:07/9	16:38
12	05:43	06:26 20:45-20:46/1	07:14	08:02 18:24-18:33/9	07:56 16:24-16:32/8	08:39 15:27-15:48/21
	21:58	21:14	20:09	19:01	17:03 15:55-16:08/13	16:38
13	05:44	06:27	07:16	08:04 18:24-18:31/7	07:57 16:24-16:31/7	08:40 15:27-15:48/21
	21:57	21:13	20:06	18:59	17:01 15:54-16:10/16	16:38
14	05:45	06:29	07:18	08:06 18:24-18:29/5	07:59 16:23-16:29/6	08:41 15:27-15:49/22
	21:57	21:11	20:04	18:57	17:00 15:53-16:11/18	16:38
15	05:46	06:30	07:19	08:07 18:24-18:27/3	08:01 16:23-16:28/5	08:42 15:28-15:50/22
	21:56	21:09	20:02	18:55	16:59 15:53-16:12/19	16:38
16	05:48	06:32	07:21	08:09	08:03 16:24-16:27/3	08:43 15:28-15:50/22
	21:55	21:07	20:00	18:53	16:57 15:52-16:13/21	16:38
17	05:49	06:34	07:22	08:11	08:04 16:24-16:25/1	08:44 15:29-15:51/22
	21:54	21:05	19:57	18:50	16:56 15:52-16:14/22	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45 15:29-15:51/22
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:08 15:51-16:15/24	08:45 15:29-15:52/23
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09 15:52-16:15/23	08:46 15:30-15:53/23
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18	08:11 15:52-16:16/24	08:47 15:30-15:53/23
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19	08:12 15:53-16:16/23	08:47 15:31-15:53/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 19:02-19:08/6	08:21	08:14 15:52-16:16/24	08:48 15:31-15:54/23
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:00-19:10/10	08:23	08:16 15:53-16:16/23	08:48 15:32-15:55/23
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:57-19:11/14	07:24	08:17 15:54-16:15/21	08:48 15:32-15:55/23
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:57-19:10/13	07:26	08:19 15:54-16:14/20	08:49 15:33-15:55/22
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:56-19:08/12	07:28	08:20 15:55-16:13/18	08:49 15:33-15:55/22
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:55-19:05/10	07:30	08:22 15:56-16:12/16	08:49 15:34-15:55/21
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 21:07-21:08/1	06:52	07:41 18:55-19:03/8	07:31	08:23 15:56-16:11/15	08:49 15:34-15:56/22
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06 21:05-21:07/2	06:54	07:43 18:55-19:00/5	07:33	08:25 15:57-16:10/13	08:50 15:35-15:56/21
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 21:05-21:06/1	06:56		07:35		08:50 15:35-15:56/21
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	4	109	78	41	422	658

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
9	08:48 16:58	08:11 16:40-16:54/14 17:49 15:49-16:35/46	07:15 18:39	07:06 20:01-20:05/4 20:30	06:06 18:38-19:58/80 20:39-20:50/11 21:19 07:09-07:43/34	05:31 18:47-19:58/71 21:58 20:59-21:22/23
10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
27	08:31 15:46-16:55/69 17:26	07:36 18:21	06:35 19:09	06:28 18:43-19:53/70 21:00 07:07-07:47/40	05:41 18:41-19:58/77 21:45 20:59-21:13/14	05:32 18:53-20:01/68 22:05 21:04-21:26/22
28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:57/71 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:58/72 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	978	1031	0	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69	06:09 18:48-20:08/80 20:50-21:04/14	06:57 20:01-20:07/6	07:45	07:37 16:11-16:22/11	08:26 15:38-15:53/15
	22:04 21:05-21:27/22	21:34 07:20-07:50/30	20:33	19:25	17:21 15:19-16:04/45	16:42
2	05:35 18:52-20:02/70	06:11 18:48-20:09/81 20:50-21:03/13	06:59 20:00-20:04/4	07:46	07:38 16:09-16:24/15	08:27 15:41-15:52/11
	22:04 21:04-21:27/23	21:32 07:20-07:52/32	20:31	19:23	17:19 15:18-16:05/47	16:42
3	05:35 18:53-20:03/70	06:12 18:48-20:08/80 20:49-21:01/12	07:00 19:59-20:03/4	07:48	07:40 16:08-16:26/18	08:29
	22:04 21:05-21:27/22	21:30 07:19-07:52/33	20:29	19:21	17:18 15:18-16:05/47	16:41
4	05:36 18:53-20:03/70	06:14 18:47-20:07/80 20:49-20:59/10	07:02 19:58-20:00/2	07:49	07:42 15:17-16:26/69	08:30
	22:03 21:05-21:28/23	21:29 07:19-07:54/35	20:27	19:19	17:16	16:40
5	05:37 18:53-20:04/71	06:15 18:48-20:08/80 20:49-20:58/9	07:03	07:51	07:44 15:17-16:27/70	08:31
	22:03 21:06-21:28/22	21:27 07:18-07:54/36	20:24	19:17	17:14	16:40
6	05:38 18:52-20:04/72	06:17 18:48-20:07/79 20:49-20:56/7	07:05	07:53	07:45 15:17-16:28/71	08:33
	22:02 21:05-21:28/23	21:25 07:17-07:54/37	20:22	19:14	17:12	16:40
7	05:38 18:52-20:04/72	06:18 18:48-20:07/79 20:50-20:55/5	07:07	07:54	07:47 15:17-16:28/71	08:34
	22:02 21:05-21:28/23	21:24 07:17-07:55/38	20:20	19:12	17:11	16:39
8	05:39 18:52-20:05/73	06:20 18:48-20:06/78 20:50-20:53/3	07:08	07:56	07:49 15:17-16:29/72	08:35
	22:01 21:06-21:28/22	21:22 07:16-07:55/39	20:18	19:10	17:09	16:39
9	05:40 18:52-20:05/73	06:21 18:49-20:06/77	07:10	07:58	07:51 15:17-16:29/72	08:36
	22:00 21:06-21:28/22	21:20 07:16-07:56/40	20:15	19:08	17:08	16:39
10	05:41 18:52-20:05/73	06:23 18:48-20:05/77	07:11	07:59	07:52 15:17-16:30/73	08:37
	22:00 21:06-21:28/22	21:18 07:15-07:55/40	20:13	19:05	17:06	16:38
11	05:42 18:52-20:06/74	06:24 18:49-20:05/76	07:13	08:01	07:54 15:18-16:30/72	08:38
	21:59 21:07-21:27/20	21:16 07:16-07:56/40	20:11	19:03	17:04	16:38
12	05:43 18:52-20:06/74	06:26 18:49-20:04/75	07:14	08:02	07:56 15:17-16:29/72	08:39
	21:58 21:07-21:27/20	21:14 07:15-07:55/40	20:09	19:01	17:03	16:38
13	05:44 18:52-20:06/74	06:27 18:49-20:03/74	07:16	08:04	07:57 15:18-16:29/71	08:40
	21:57 21:07-21:26/19	21:13 07:14-07:55/41	20:06	18:59	17:01	16:38
14	05:45 18:51-20:07/76	06:29 18:50-20:02/72	07:18	08:06	07:59 15:18-16:29/71	08:41
	21:56 21:08-21:25/17	21:11 07:15-07:55/40	20:04	18:57	17:00	16:38
15	05:47 18:51-20:07/76	06:31 18:50-20:01/71	07:19	08:07	08:01 15:19-16:28/69	08:42
	21:56 21:08-21:24/16	21:09 07:14-07:54/40	20:02	18:55	16:59	16:38
16	05:48 18:51-20:07/76	06:32 18:51-20:00/69	07:21	08:09	08:03 16:06-16:27/21	08:43
	21:55 21:09-21:23/14	21:07 07:15-07:54/39	20:00	18:53	16:57 15:20-16:05/45	16:38
17	05:49 18:51-20:07/76	06:34 18:51-19:59/68	07:22	08:11 18:15-18:22/7	08:04 16:07-16:25/18	08:44
	21:54 21:09-21:22/13	21:05 07:15-07:53/38	19:57	18:50	16:56 15:21-16:04/43	16:39
18	05:50 18:50-20:07/77	06:35 18:52-19:58/66	07:24	08:13 18:14-18:20/6	08:06 16:08-16:24/16	08:45
	21:53 21:10-21:21/11	21:03 07:16-07:53/37	19:55	18:48	16:55 15:22-16:04/42	16:39
19	05:51 18:50-20:07/77	06:37 18:53-19:56/63	07:25	08:14 18:13-18:18/5	08:08 16:09-16:22/13	08:45
	21:51 21:10-21:20/10	21:01 07:16-07:52/36	19:53	18:46	16:54 15:22-16:03/41	16:39
20	05:53 18:50-20:09/79	06:38 18:54-19:55/61	07:27	08:16 18:13-18:17/4	08:09 16:10-16:21/11	08:46
	21:50 21:12-21:20/8	20:59 07:17-07:52/35	19:50	18:44	16:52 15:23-16:03/40	16:39
21	05:54 18:50-20:08/78	06:40 18:54-19:53/59	07:29	08:18 18:12-18:14/2	08:11 16:12-16:20/8	08:47
	21:49 21:13-21:18/5	20:57 07:17-07:50/33	19:48	18:42 16:40-16:46/6	16:51 15:24-16:02/38	16:40
22	05:55 18:50-20:08/78	06:41 18:56-19:52/56	07:30	08:19 16:34-16:51/17	08:12 16:15-16:19/4	08:47
	21:48 21:15-21:17/2	20:55 07:18-07:49/31	19:46	18:40	16:50 15:25-16:02/37	16:40
23	05:56 18:49-20:08/79	06:43 18:57-19:49/52	07:32	08:21 16:31-16:54/23	08:14 15:26-16:01/35	08:48
	21:47	20:53 07:19-07:47/28	19:44	18:38	16:49	16:41
24	05:58 18:50-20:09/79	06:45 18:59-19:48/49	07:33	08:23 16:29-16:57/28	08:16 15:27-16:00/33	08:48
	21:45	20:50 07:21-07:46/25	19:41	18:36	16:48	16:41
25	05:59 18:49-20:09/80	06:46 19:00-19:45/45	07:35	07:24 15:27-15:58/31	08:17 15:28-16:00/32	08:48
	21:44 07:34-07:37/3	20:48 07:22-07:43/21	19:39	17:34	16:47	16:42
26	06:01 18:49-20:09/80	06:48 19:02-19:43/41	07:37	07:26 15:25-16:00/35	08:19 15:29-15:58/29	08:49
	21:43 07:29-07:41/12	20:46 07:25-07:41/16	19:37	17:32	16:46	16:43
27	06:02 18:48-20:08/80 20:55-20:59/4	06:49 19:04-19:40/36	07:38	07:28 15:23-16:00/37	08:20 15:31-15:58/27	08:49
	21:41 07:28-07:44/16	20:44 07:28-07:36/8	19:35	17:30	16:45	16:44
28	06:03 18:49-20:09/80 20:54-21:02/8	06:51 19:07-19:37/30	07:40	07:30 15:22-16:01/39	08:22 15:33-15:57/24	08:49
	21:40 07:26-07:46/20	20:42	19:32	17:28	16:44	16:44
29	06:05 18:48-20:09/81 20:52-21:03/11	06:52 19:10-19:32/22	07:41	07:31 15:21-16:02/41	08:23 15:34-15:56/22	08:49
	21:38 07:24-07:47/23	20:40	19:30	17:27	16:44	16:45
30	06:06 18:48-20:08/80 20:51-21:03/12	06:54 19:19-19:24/5	07:43	07:33 15:20-16:03/43	08:25 15:36-15:55/19	08:50
	21:37 07:23-07:49/26	20:38	19:28	17:25	16:43	16:46
31	06:08 18:48-20:09/81 20:50-21:04/14	06:56 20:04-20:07/3		07:35 15:19-16:04/45		08:50
	21:35 07:22-07:50/28	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	16	369	1634	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 14:50-15:34/44 16:48 12:37-13:24/47	08:24 08:58-09:29/31 17:35 17:03-17:05/2	07:32 18:25	07:23 19:36-19:52/16 20:17	06:20 06:48-07:00/12 21:06	05:37 06:40-07:07/27 21:51
2	08:50 14:51-15:35/44 16:49 12:38-13:24/46	08:23 08:57-09:29/32 17:37 17:04-17:07/3	07:30 18:27	07:21 19:34-19:53/19 20:19	06:18 06:45-07:03/18 21:08	05:36 06:41-07:07/26 21:52
3	08:49 14:52-15:35/43 16:50 12:39-13:25/46	08:21 08:56-09:29/33 17:38 17:06-17:07/1	07:28 18:28	07:19 19:33-19:55/22 20:20	06:17 06:44-07:05/21 21:10	05:35 06:41-07:06/25 21:53
4	08:49 14:52-15:35/43 16:51 12:39-13:24/45	08:19 08:57-09:31/34 17:40	07:26 18:30	07:17 19:33-19:57/24 20:22	06:15 06:42-07:06/24 21:11	05:34 06:43-07:07/24 21:54
5	08:49 14:53-15:36/43 16:53 12:40-13:24/44	08:18 08:56-09:31/35 17:42	07:24 18:32	07:14 19:33-19:58/25 20:24	06:13 06:40-07:07/27 21:13	05:34 06:43-07:06/23 21:55
6	08:49 14:53-15:35/42 16:54 12:41-13:24/43	08:16 08:56-09:31/35 17:44	07:22 18:33	07:12 19:32-19:56/24 20:25	06:11 06:40-07:08/28 21:14	05:33 06:44-07:06/22 21:56
7	08:48 14:54-15:36/42 16:55 12:42-13:24/42	08:15 08:55-09:31/36 17:46	07:19 18:35	07:10 19:32-19:55/23 20:27	06:09 06:38-07:09/31 21:16	05:32 06:44-07:05/21 21:56
8	08:48 14:54-15:36/42 16:56 12:43-13:23/40	08:13 08:56-09:32/36 17:47	07:17 18:37	07:08 19:32-19:54/22 20:29	06:08 06:37-07:09/32 21:17	05:32 06:45-07:05/20 21:57
9	08:48 14:55-15:37/42 16:58 12:45-13:24/39	08:11 08:56-09:32/36 17:49	07:15 18:39	07:06 19:33-19:53/20 20:30	06:06 06:37-07:10/33 21:19	05:32 06:46-07:04/18 21:58
10	08:47 14:55-15:37/42 16:59 12:46-13:23/37	08:09 08:56-09:31/35 17:51	07:13 18:40	07:03 19:34-19:52/18 20:32	06:04 06:36-07:10/34 21:21	05:31 06:47-07:04/17 21:59
11	08:46 14:56-15:37/41 17:00 12:47-13:22/35	08:08 08:56-09:31/35 17:53	07:11 18:42	07:01 19:35-19:51/16 20:34	06:03 06:36-07:11/35 21:22	05:31 06:48-07:04/16 22:00
12	08:46 14:57-15:37/40 17:02 12:49-13:22/33	08:06 08:57-09:31/34 17:55	07:08 18:44	06:59 19:36-19:48/12 20:35	06:01 06:35-07:11/36 21:24	05:30 06:49-07:03/14 22:00
13	08:45 14:58-15:37/39 17:03 12:51-13:21/30	08:04 08:57-09:30/33 17:56	07:06 18:45	06:57 19:40-19:44/4 20:37	06:00 06:35-07:11/36 21:25	05:30 06:49-07:02/13 22:01
14	08:44 14:58-15:37/39 17:05 12:53-13:20/27	08:02 08:58-09:29/31 17:58	07:04 18:47	06:55 20:38	05:58 06:34-07:11/37 21:27	05:30 06:50-07:02/12 22:02
15	08:44 14:59-15:37/38 17:06 12:55-13:18/23	08:00 08:58-09:28/30 18:00	07:02 18:49	06:53 20:40	05:57 06:34-07:11/37 21:28	05:30 06:50-07:02/12 22:02
16	08:43 15:00-15:37/37 17:08 12:58-13:15/17	07:58 08:59-09:27/28 18:02	06:59 18:25-18:26/1 18:51	06:50 20:42	05:55 06:35-07:12/37 21:30	05:30 06:51-07:01/10 22:03
17	08:42 15:01-15:37/36 17:09 13:07-13:10/3	07:57 09:00-09:26/26 18:04	06:57 18:24-18:27/3 18:52	06:48 20:43	05:54 06:34-07:11/37 21:31	05:30 06:52-07:01/9 22:03
18	08:41 15:02-15:37/35 17:11	07:55 09:02-09:24/22 18:05	06:55 18:25-18:29/4 18:54	06:46 20:45	05:52 06:34-07:11/37 21:33	05:30 06:53-07:01/8 22:03
19	08:40 15:03-15:36/33 17:13	07:53 09:04-09:21/17 18:07	06:53 18:26-18:31/5 18:56	06:44 20:47	05:51 06:35-07:11/36 21:34	05:30 06:53-07:00/7 22:04
20	08:39 15:05-15:36/31 17:14	07:51 09:07-09:18/11 18:09	06:50 18:57	06:42 20:48	05:49 06:35-07:12/37 21:35	05:30 06:53-07:00/7 22:04
21	08:38 15:05-15:35/30 17:16	07:49 18:11	06:48 18:59	06:40 20:50	05:48 06:35-07:12/37 21:37	05:30 06:54-07:01/7 22:04
22	08:37 15:07-15:34/27 17:17	07:47 18:13	06:46 19:01	06:38 20:52	05:47 06:35-07:10/35 21:38	05:30 06:54-07:01/7 22:05
23	08:36 15:09-15:33/24 17:19	07:45 18:14	06:44 19:02	06:36 20:53	05:46 06:35-07:10/35 21:40	05:30 06:54-07:01/7 22:05
24	08:35 15:12-15:32/20 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:45 06:36-07:10/34 21:41	05:31 06:54-07:02/8 22:05
25	08:34 15:14-15:30/16 17:23 09:06-09:17/11	07:41 18:18	06:39 19:06	06:32 20:57	05:43 06:36-07:10/34 21:42	05:31 06:54-07:03/9 22:05
26	08:32 15:19-15:27/8 17:24 09:04-09:20/16	07:39 18:20	06:37 19:07	06:30 20:58	05:42 06:36-07:09/33 21:43	05:31 06:54-07:03/9 22:05
27	08:31 09:02-09:22/20 17:26	07:36 18:21	06:35 19:09	06:28 21:00	05:41 06:37-07:09/32 21:45	05:32 06:54-07:04/10 22:05
28	08:30 09:01-09:24/23 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 06:38-07:10/32 21:46	05:32 06:53-07:05/12 22:05
29	08:28 09:00-09:25/25 17:29		07:30 19:42-19:47/5 20:12	06:24 21:03	05:39 06:39-07:09/30 21:47	05:33 06:53-07:06/13 22:05
30	08:27 08:59-09:27/28 17:31		07:28 19:39-19:49/10 20:14	06:22 21:05	05:38 06:39-07:08/29 21:48	05:33 06:52-07:06/14 22:04
31	08:26 08:58-09:27/29 17:33 17:01-17:03/2		07:26 19:37-19:50/13 20:15		05:37 06:39-07:08/29 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	616	41	245	985	427

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:52-07:07/15	06:09 06:45-07:21/36	06:57 19:34-19:50/16	07:45	07:37 08:26-09:01/35	08:26 14:38-15:19/41
	22:04	21:34	20:33	19:25	17:21	16:42 12:29-13:04/35
2	05:35 06:51-07:08/17	06:11 06:46-07:21/35	06:59 19:32-19:50/18	07:46	07:38 08:26-09:01/35	08:27 14:38-15:20/42
	22:04	21:32	20:31	19:23	17:19	16:42 12:29-13:06/37
3	05:35 06:51-07:09/18	06:12 06:46-07:20/34	07:00 19:31-19:52/21	07:48	07:40 08:26-09:02/36	08:29 14:38-15:20/42
	22:04	21:30	20:29	19:21	17:18	16:41 12:28-13:07/39
4	05:36 06:51-07:10/19	06:14 06:47-07:20/33	07:02 19:29-19:51/22	07:49	07:42 08:25-09:01/36	08:30 14:39-15:21/42
	22:03	21:29	20:27	19:19	17:16	16:40 12:28-13:08/40
5	05:37 06:51-07:11/20	06:15 06:48-07:19/31	07:03 19:29-19:52/23	07:51	07:44 08:25-09:01/36	08:31 14:39-15:21/42
	22:03	21:27	20:24	19:17	17:14	16:40 12:27-13:09/42
6	05:38 06:50-07:11/21	06:17 06:48-07:18/30	07:05 19:28-19:52/24	07:53	07:45 08:26-09:01/35	08:33 14:39-15:21/42
	22:02	21:25	20:22	19:14	17:12	16:40 12:27-13:10/43
7	05:38 06:49-07:12/23	06:18 06:49-07:18/29	07:07 19:28-19:53/25	07:54	07:47 08:26-09:00/34	08:34 14:40-15:23/43
	22:02	21:24	20:20	19:12	17:11	16:39 12:27-13:11/44
8	05:39 06:49-07:13/24	06:20 06:50-07:16/26	07:08 19:27-19:51/24	07:56	07:49 08:27-09:00/33	08:35 14:40-15:23/43
	22:01	21:22	20:18	19:10	17:09 16:36-16:39/3	16:39 12:27-13:12/45
9	05:40 06:49-07:14/25	06:21 06:52-07:15/23	07:10 19:28-19:49/21	07:58	07:50 08:28-09:00/32	08:36 14:40-15:23/43
	22:00	21:20	20:15	19:08	17:08 16:34-16:38/4	16:39 12:27-13:13/46
10	05:41 06:49-07:14/25	06:23 06:53-07:13/20	07:11 19:27-19:46/19	07:59	07:52 08:29-08:59/30	08:37 14:40-15:24/44
	22:00	21:18	20:13	19:05	17:06 16:33-16:36/3	16:38 12:27-13:13/46
11	05:42 06:48-07:15/27	06:24 06:55-07:12/17	07:13 19:28-19:45/17	08:01	07:54 08:30-08:59/29	08:38 14:40-15:24/44
	21:59	21:16	20:11	19:03	17:04 16:33-16:35/2	16:38 12:27-13:14/47
12	05:43 06:48-07:16/28	06:26 06:58-07:08/10	07:14 19:28-19:42/14	08:02	07:56 08:31-08:58/27	08:39 14:41-15:24/43
	21:58	21:14	20:09	19:01	17:03	16:38 12:27-13:15/48
13	05:44 06:48-07:17/29	06:27	07:16 19:30-19:40/10	08:04	07:57 08:32-08:57/25	08:40 14:41-15:25/44
	21:57	21:13	20:06	18:59	17:01	16:38 12:27-13:16/49
14	05:45 06:47-07:17/30	06:29	07:18 19:32-19:37/5	08:06	07:59 08:33-08:56/23	08:41 14:42-15:25/43
	21:56	21:11	20:04	18:57	17:00	16:38 12:27-13:16/49
15	05:47 06:47-07:18/31	06:31	07:19	08:07	08:01 08:35-08:55/20	08:42 14:42-15:26/44
	21:56	21:09	20:02	18:55	16:59	16:38 12:28-13:17/49
16	05:48 06:47-07:18/31	06:32	07:21	08:09	08:02 14:52-15:00/8	08:43 14:43-15:27/44
	21:55	21:07	20:00	18:53	16:57 08:37-08:53/16	16:38 12:28-13:18/50
17	05:49 06:46-07:19/33	06:34	07:22	08:11	08:04 14:48-15:04/16	08:44 14:43-15:27/44
	21:54	21:05	19:57	18:50	16:56 08:40-08:51/11	16:39 12:29-13:19/50
18	05:50 06:46-07:19/33	06:35	07:24	08:12	08:06 14:46-15:06/20	08:45 14:43-15:27/44
	21:52	21:03	19:55	18:48	16:55	16:39 12:28-13:18/50
19	05:51 06:46-07:20/34	06:37	07:25	08:14	08:07 14:43-15:07/24	08:45 14:44-15:28/44
	21:51	21:01	19:53	18:46	16:54	16:39 12:29-13:19/50
20	05:53 06:46-07:21/35	06:38	07:27	08:16	08:09 14:42-15:09/27	08:46 14:45-15:29/44
	21:50	20:59	19:50	18:44	16:52	16:40 12:30-13:20/50
21	05:54 06:46-07:21/35	06:40	07:29	08:18	08:11 14:41-15:11/30	08:47 14:45-15:29/44
	21:49	20:57	19:48	18:42	16:51	16:40 12:30-13:20/50
22	05:55 06:45-07:21/36	06:41	07:30	08:19 09:36-09:50/14	08:12 14:41-15:12/31	08:47 14:46-15:30/44
	21:48	20:55	19:46	18:40	16:50	16:40 12:31-13:21/50
23	05:57 06:45-07:21/36	06:43	07:32	08:21 09:34-09:52/18	08:14 14:39-15:12/33	08:48 14:46-15:30/44
	21:47	20:53	19:44	18:38	16:49	16:41 12:31-13:21/50
24	05:58 06:45-07:22/37	06:45	07:33 19:10-19:15/5	08:23 09:32-09:55/23	08:16 14:39-15:14/35	08:48 14:46-15:30/44
	21:45	20:50	19:41	18:36	16:48	16:41 12:31-13:21/50
25	05:59 06:45-07:22/37	06:46	07:35 19:08-19:12/4	07:24 08:31-08:56/25	08:17 14:39-15:15/36	08:48 14:47-15:31/44
	21:44	20:48	19:39	17:34	16:47 12:46-12:47/1	16:42 12:32-13:22/50
26	06:01 06:45-07:22/37	06:48	07:37 19:07-19:10/3	07:26 08:29-08:58/29	08:19 14:38-15:15/37	08:49 14:47-15:31/44
	21:43	20:46	19:37	17:32	16:46 12:36-12:53/17	16:43 12:33-13:23/50
27	06:02 06:45-07:23/38	06:49	07:38 19:07-19:08/1	07:28 08:28-08:58/30	08:20 14:38-15:16/38	08:49 14:48-15:32/44
	21:41	20:44	19:35	17:30	16:45 12:34-12:57/23	16:44 12:33-13:23/50
28	06:03 06:45-07:22/37	06:51	07:40	07:30 08:27-08:59/32	08:22 14:38-15:17/39	08:49 14:48-15:32/44
	21:40	20:42	19:32	17:28	16:44 12:33-12:59/26	16:44 12:34-13:23/49
29	06:05 06:45-07:22/37	06:52	07:41	07:31 08:26-09:00/34	08:23 14:38-15:17/39	08:49 14:48-15:32/44
	21:38	20:40	19:30	17:27	16:44 12:31-13:01/30	16:45 12:34-13:23/49
30	06:06 06:46-07:22/36	06:54 19:41-19:45/4	07:43	07:33 08:26-09:00/34	08:25 14:38-15:19/41	08:50 14:49-15:33/44
	21:37	20:38	19:28	17:25	16:43 12:30-13:03/33	16:46 12:35-13:23/48
31	06:08 06:46-07:22/36	06:56 19:36-19:48/12		07:35 08:26-09:01/35		08:50 14:49-15:33/44
	21:35	20:35		17:23		16:47 12:36-13:24/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	920	340	272	274	1089	2799

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 11:08-12:05/57	08:24	07:32 07:55-08:07/12	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 11:09-12:06/57	08:22	07:30 07:53-08:09/16	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 11:10-12:06/56	08:21	07:28 07:51-08:10/19	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 11:10-12:06/56	08:19	07:26 07:49-08:11/22	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 11:11-12:06/55	08:18	07:24 07:46-08:10/24	07:14	06:13	05:33
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 11:11-12:06/55	08:16	07:21 07:44-08:11/27	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 11:12-12:06/54	08:15	07:19 07:42-08:11/29	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 11:13-12:05/52	08:13	07:17 07:40-08:11/31	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 11:14-12:06/52	08:11	07:15 07:38-08:12/34	07:05	06:06	05:31
	16:57	17:49	18:38	20:30	21:19	21:58
10	08:47 11:15-12:05/50	08:09	07:13 07:35-08:10/35	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 11:16-12:05/49	08:08	07:10 07:33-08:10/37	07:01	06:03 06:28-06:29/1	05:30 06:00-06:01/1
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 11:18-12:05/47	08:06	07:08 07:31-08:10/39	06:59	06:01 06:26-06:29/3	05:30 05:59-06:00/1
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 11:19-12:04/45	08:04	07:06 07:29-08:09/40	06:57	05:59 06:25-06:29/4	05:30 05:59-06:00/1
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 11:20-12:04/44	08:02	07:04 07:26-08:07/41	06:55	05:58 06:23-06:28/5	05:30 05:59-06:00/1
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 11:21-12:03/42	08:00	07:02 07:24-08:06/42	06:52	05:56 06:22-06:28/6	05:30 05:59-06:00/1
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 11:22-12:02/40	07:58	06:59 07:22-08:04/42	06:50	05:55 06:21-06:28/7	05:29 05:59-06:00/1
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 11:24-12:01/37	07:56	06:57 07:19-08:01/42	06:48	05:53 06:19-06:27/8	05:29 05:59-06:00/1
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 11:26-12:00/34	07:55	06:55 07:17-07:59/42	06:46	05:52 06:18-06:26/8	05:29 05:59-06:00/1
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 11:28-11:58/30	07:53	06:53 07:17-07:54/37	06:44	05:51 06:17-06:25/8	05:29 05:59-06:00/1
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:31-11:56/25	07:51	06:50 07:16-07:53/37	06:42	05:49 06:19-06:24/5	05:29 05:59-06:00/1
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:33-11:52/19	07:49	06:48 07:16-07:52/36	06:40	05:48	05:30 06:00-06:01/1
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 11:39-11:47/8	07:47	06:46 07:16-07:52/36	06:38	05:47	05:30 06:00-06:01/1
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36	07:45	06:43 07:16-07:51/35	06:36	05:45	05:30 06:00-06:01/1
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35	07:43	06:41 07:16-07:51/35	06:34	05:44	05:30 06:00-06:01/1
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34	07:40	06:39 07:16-07:49/33	06:32	05:43	05:31 06:01-06:02/1
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38	06:37 07:17-07:48/31	06:30	05:42	05:31 06:01-06:02/1
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:03/3	06:34 07:18-07:47/29	06:28	05:41	05:31 06:02-06:03/1
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:05/8	06:32 07:18-07:44/26	06:26	05:40	05:32 06:02-06:03/1
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 08:20-08:42/22	06:24	05:39	05:32 06:03-06:04/1
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28 08:22-08:40/18	06:22	05:38	05:33 06:03-06:04/1
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25 08:25-08:36/11		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	964	11	960	0	55	20

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34	06:04-06:05/1	06:09	06:37-06:39/2	06:57		07:44	08:09-08:48/39	07:36		08:26	10:58-11:47/49
	22:04		21:34		20:33		19:25		17:21		16:42	
2	05:34	06:04-06:05/1	06:10		06:59		07:46	08:11-08:49/38	07:38		08:27	10:58-11:48/50
	22:04		21:32		20:31		19:23		17:19		16:41	
3	05:35		06:12		07:00		07:48	08:12-08:48/36	07:40		08:29	10:57-11:49/52
	22:04		21:30		20:29		19:21		17:17		16:41	
4	05:36		06:13		07:02		07:49	08:14-08:48/34	07:42		08:30	10:58-11:50/52
	22:03		21:29		20:27		19:19		17:16		16:40	
5	05:37		06:15		07:03		07:51	08:16-08:48/32	07:43		08:31	10:58-11:51/53
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:37		06:16		07:05		07:52	08:17-08:47/30	07:45		08:33	10:57-11:52/55
	22:02		21:25		20:22		19:14		17:12		16:39	
7	05:38		06:18		07:06		07:54	08:19-08:47/28	07:47		08:34	10:58-11:53/55
	22:02		21:24		20:20		19:12		17:11		16:39	
8	05:39		06:19		07:08		07:56	08:21-08:47/26	07:49		08:35	10:58-11:54/56
	22:01		21:22		20:18		19:10		17:09		16:39	
9	05:40		06:21		07:10		07:57	08:22-08:45/23	07:50		08:36	10:58-11:54/56
	22:00		21:20		20:15		19:08		17:07		16:38	
10	05:41		06:23		07:11		07:59	08:24-08:44/20	07:52		08:37	10:58-11:55/57
	22:00		21:18		20:13		19:05		17:06		16:38	
11	05:42		06:24		07:13		08:01	08:26-08:43/17	07:54		08:38	10:58-11:55/57
	21:59		21:16		20:11		19:03		17:04		16:38	
12	05:43		06:26		07:14	08:17-08:27/10	08:02	08:28-08:42/14	07:56		08:39	10:58-11:56/58
	21:58		21:14		20:09		19:01		17:03		16:38	
13	05:44		06:27		07:16	08:14-08:31/17	08:04	08:29-08:39/10	07:57		08:40	10:58-11:57/59
	21:57		21:12		20:06		18:59		17:01		16:38	
14	05:45		06:29		07:17	08:10-08:32/22	08:06	08:31-08:37/6	07:59		08:41	10:59-11:57/58
	21:56		21:11		20:04		18:57		17:00		16:38	
15	05:46		06:30		07:19	08:09-08:34/25	08:07		08:01		08:42	10:59-11:58/59
	21:56		21:09		20:02		18:55		16:58		16:38	
16	05:47		06:32		07:21	08:07-08:35/28	08:09		08:02		08:43	10:59-11:59/60
	21:55		21:07		19:59		18:52		16:57		16:38	
17	05:49		06:33		07:22	08:05-08:36/31	08:11		08:04		08:44	11:00-12:00/60
	21:54		21:05		19:57		18:50		16:56		16:38	
18	05:50		06:35		07:24	08:04-08:36/32	08:12		08:06		08:45	11:00-12:00/60
	21:52		21:03		19:55		18:48		16:55		16:39	
19	05:51		06:37		07:25	08:03-08:37/34	08:14		08:07		08:45	11:00-12:00/60
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52		06:38		07:27	08:03-08:38/35	08:16		08:09	11:14-11:22/8	08:46	11:01-12:01/60
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54		06:40		07:28	08:01-08:37/36	08:17		08:11	11:09-11:28/19	08:47	11:01-12:01/60
	21:49		20:57		19:48		18:42		16:51		16:40	
22	05:55		06:41		07:30	08:01-08:38/37	08:19		08:12	11:07-11:32/25	08:47	11:02-12:02/60
	21:48		20:55		19:46		18:40		16:50		16:40	
23	05:56		06:43		07:32	08:00-08:37/37	08:21		08:14	11:04-11:34/30	08:48	11:02-12:02/60
	21:47		20:52		19:43		18:38		16:49		16:41	
24	05:58	06:29-06:35/6	06:44		07:33	08:00-08:37/37	08:23		08:16	11:03-11:37/34	08:48	11:02-12:02/60
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59	06:28-06:36/8	06:46		07:35	07:59-08:41/42	07:24		08:17	11:02-11:39/37	08:48	11:04-12:03/59
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00	06:29-06:37/8	06:48		07:36	08:01-08:43/42	07:26		08:19	11:01-11:40/39	08:49	11:04-12:04/60
	21:43		20:46		19:37		17:32		16:46		16:43	
27	06:02	06:30-06:38/8	06:49		07:38	08:03-08:46/43	07:28		08:20	11:00-11:42/42	08:49	11:04-12:04/60
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:32-06:39/7	06:51		07:40	08:04-08:46/42	07:30		08:22	11:00-11:44/44	08:49	11:05-12:04/59
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:33-06:39/6	06:52		07:41	08:06-08:47/41	07:31		08:23	10:59-11:44/45	08:49	11:05-12:04/59
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:34-06:39/5	06:54		07:43	08:07-08:47/40	07:33		08:25	10:59-11:46/47	08:50	11:06-12:05/59
	21:37		20:38		19:28		17:25		16:43		16:46	
31	06:07	06:36-06:39/3	06:55				07:35				08:50	11:07-12:05/58
	21:35		20:35				17:23				16:47	
Potential sun hours	498		452		380		333		269		248	
Sum of minutes with flicker	53		2		631		353		370		1780	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:05-16:14/9 13:09-13:47/38	08:24 14:19-14:52/33	07:32 17:40-17:59/19	07:23 19:11-19:50/39	06:20	05:36
	16:48 13:48-14:59/71	17:35	18:25	20:17	21:06	21:51
2	08:50 16:05-16:15/10 13:10-13:47/37	08:23 14:22-14:49/27	07:30 17:39-18:01/22	07:21 19:11-19:50/39	06:18	05:36
	16:49 13:48-14:59/71	17:36	18:26	20:19	21:08	21:52
3	08:49 16:06-16:17/11 13:11-13:47/36	08:21 14:27-14:45/18	07:28 17:39-18:03/24	07:19 19:10-19:51/41	06:16	05:35 06:03-06:05/2
	16:50 13:49-15:00/71	17:38	18:28	20:20	21:10	21:53
4	08:49 16:05-16:17/12 13:12-13:46/34	08:19	07:26 17:38-18:05/27	07:17 19:10-19:51/41	06:15	05:34 06:02-06:06/4
	16:51 13:49-15:00/71	17:40	18:30	20:22	21:11	21:54
5	08:49 16:06-16:19/13 13:14-13:46/32	08:18	07:24 17:37-18:06/29	07:14 19:10-19:50/40	06:13	05:33 06:02-06:07/5
	16:52 13:50-15:00/70	17:42	18:32	20:24	21:13	21:55
6	08:49 16:05-16:20/15 13:14-13:45/31	08:16	07:21 17:37-18:07/30	07:12 19:09-19:49/40	06:11	05:33 06:01-06:07/6
	16:54 13:50-15:00/70	17:44	18:33	20:25	21:14	21:56
7	08:48 16:06-16:22/16 13:17-13:45/28	08:15	07:19 17:37-18:07/30	07:10 19:09-19:49/40	06:09	05:32 06:01-06:08/7
	16:55 13:51-15:01/70	17:45	18:35	20:27	21:16	21:56
8	08:48 16:06-16:22/16 13:18-13:43/25	08:13	07:17 17:37-18:07/30	07:08 19:10-19:48/38	06:08	05:32 06:01-06:10/9
	16:56 13:51-15:01/70	17:47	18:37	20:29	21:17	21:57
9	08:48 16:06-16:25/19 13:21-13:43/22	08:11	07:15 17:37-18:06/29	07:05 19:10-19:48/38	06:06	05:31 06:00-06:09/9
	16:58 13:52-15:02/70	17:49	18:39	20:30	21:19	21:58
10	08:47 16:06-16:26/20 13:23-13:41/18	08:09	07:13 17:37-18:05/28	07:03 19:11-19:47/36	06:04	05:31 06:00-06:10/10
	16:59 13:52-15:02/70	17:51	18:40	20:32	21:21	21:59
11	08:46 16:06-16:27/21 13:27-13:37/10	08:08	07:10 17:38-18:04/26	07:01 19:11-19:45/34	06:03	05:31 06:00-06:11/11
	17:00 13:53-15:01/68	17:53	18:42	20:34	21:22	22:00
12	08:46 16:07-16:29/22	08:06	07:08 17:39-18:03/24	06:59 19:11-19:44/33	06:01	05:30 05:59-06:11/12
	17:02 13:54-15:02/68	17:54	18:44	20:35	21:24	22:00
13	08:45 16:07-16:31/24	08:04	07:06 17:40-18:01/21	06:57 19:13-19:43/30	05:59 20:55-20:56/1	05:30 05:59-06:11/12
	17:03 13:55-15:02/67	17:56	18:45	20:37	21:25	22:01
14	08:45 16:07-16:32/25	08:02	07:04 17:42-17:59/17	06:55 19:14-19:41/27	05:58 20:56-20:57/1	05:30 05:59-06:12/13
	17:05 13:55-15:02/67	17:58	18:47	20:38	21:27	22:02
15	08:44 16:07-16:34/27	08:00	07:02 17:45-17:56/11	06:52 19:16-19:40/24	05:56	05:30 05:59-06:12/13
	17:06 13:56-15:02/66	18:00	18:49	20:40	21:28	22:02
16	08:43 16:08-16:35/27	07:58	06:59	06:50 19:18-19:37/19	05:55	05:30 05:59-06:13/14
	17:08 13:57-15:02/65	18:02	18:50	20:42	21:30	22:03
17	08:42 16:08-16:36/28	07:57	06:57	06:48 19:20-19:34/14	05:53	05:29 05:59-06:13/14
	17:09 13:57-15:02/65	18:03	18:52	20:43	21:31	22:03
18	08:41 16:09-16:37/28	07:55	06:55	06:46	05:52	05:29 05:59-06:13/14
	17:11 13:58-15:02/64	18:05	18:54	20:45	21:33	22:03
19	08:40 16:09-16:37/28	07:53	06:53	06:44	05:51	05:29 05:59-06:13/14
	17:12 13:59-15:02/63	18:07	18:55	20:47	21:34	22:04
20	08:39 16:10-16:37/27	07:51	06:50	06:42	05:49	05:30 05:59-06:13/14
	17:14 14:00-15:02/62	18:09	18:57	20:48	21:35	22:04
21	08:38 16:10-16:37/27	07:49	06:48	06:40	05:48	05:30 05:59-06:14/15
	17:16 14:01-15:01/60	18:11	18:59	20:50	21:37	22:04
22	08:37 16:11-16:37/26	07:47	06:46	06:38	05:47	05:30 06:00-06:14/14
	17:17 14:02-15:01/59	18:12	19:00	20:52	21:38	22:05
23	08:36 16:12-16:37/25	07:45	06:44 18:28-18:37/9	06:36	05:46	05:30 06:00-06:14/14
	17:19 14:03-15:01/58	18:14	19:02	20:53	21:40	22:05
24	08:35 16:13-16:37/24	07:43	06:41 18:23-18:38/15	06:34	05:44	05:30 06:00-06:14/14
	17:21 14:05-15:01/56	18:16	19:04	20:55	21:41	22:05
25	08:34 16:13-16:36/23	07:41 17:48-17:52/4	06:39 18:21-18:40/19	06:32	05:43	05:31 06:01-06:15/14
	17:22 14:05-15:00/55	18:18	19:05	20:57	21:42	22:05
26	08:32 16:15-16:36/21	07:38 17:46-17:54/8	06:37 18:19-18:42/23	06:30	05:42	05:31 06:01-06:15/14
	17:24 14:07-14:59/52	18:19	19:07	20:58	21:43	22:05
27	08:31 16:16-16:34/18	07:36 17:44-17:56/12	06:35 18:17-18:44/27	06:28	05:41	05:32 06:02-06:15/13
	17:26 14:08-14:58/50	18:21	19:09	21:00	21:45	22:05
28	08:30 16:18-16:34/16	07:34 17:41-17:57/16	06:32 18:15-18:45/30	06:26	05:40	05:32 06:02-06:15/13
	17:28 14:10-14:58/48	18:23	19:10	21:01	21:46	22:05
29	08:28 16:20-16:32/12		07:30 19:14-19:47/33	06:24	05:39	05:33 06:03-06:16/13
	17:29 14:11-14:56/45		20:12	21:03	21:47	22:05
30	08:27 16:24-16:29/5		07:28 19:13-19:49/36	06:22	05:38	05:33 06:03-06:15/12
	17:31 14:14-14:55/41		20:14	21:05	21:48	22:04
31	08:26 14:16-14:53/37		07:26 19:13-19:50/37		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2826	118	596	573	2	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11 22:04	06:09 21:34	06:57 19:10-19:45/35 20:33	07:44 18:19-18:42/23 19:25	07:37 17:21	08:26 15:48-16:09/21 13:10-13:19/9 16:42 13:35-14:44/69
2	05:34 06:04-06:15/11 22:04	06:11 21:32	06:59 19:09-19:45/36 20:31	07:46 18:17-18:43/26 19:23	07:38 17:19	08:27 15:49-16:09/20 13:07-13:23/16 16:41 13:36-14:45/69
3	05:35 06:05-06:15/10 22:04	06:12 21:30	07:00 19:08-19:46/38 20:29	07:48 18:16-18:43/27 19:21	07:40 17:17	08:29 15:49-16:08/19 13:04-13:26/22 16:41 13:35-14:45/70
4	05:36 06:06-06:15/9 22:03	06:14 21:29	07:02 19:07-19:45/38 20:27	07:49 18:15-18:43/28 19:19	07:42 17:16	08:30 15:51-16:08/17 13:03-13:28/25 16:40 13:36-14:46/70
5	05:37 06:07-06:15/8 22:03	06:15 21:27	07:03 19:07-19:46/39 20:24	07:51 18:14-18:44/30 19:16	07:44 17:14	08:31 15:51-16:07/16 13:02-13:30/28 16:40 13:36-14:46/70
6	05:37 06:07-06:14/7 22:02	06:17 21:25	07:05 19:05-19:45/40 20:22	07:53 18:13-18:43/30 19:14	07:45 17:12	08:33 15:51-16:06/15 13:01-13:31/30 16:39 13:36-14:46/70
7	05:38 06:08-06:14/6 22:02	06:18 21:24	07:07 19:05-19:46/41 20:20	07:54 18:13-18:43/30 19:12	07:47 14:05-14:08/3 17:11	08:34 15:53-16:06/13 13:01-13:33/32 16:39 13:37-14:47/70
8	05:39 06:09-06:13/4 22:01	06:20 21:22	07:08 19:04-19:45/41 20:18	07:56 18:13-18:43/30 19:10	07:49 13:57-14:16/19 17:09	08:35 15:53-16:05/12 13:00-13:34/34 16:39 13:37-14:48/71
9	05:40 06:10-06:13/3 22:00	06:21 21:20	07:10 19:05-19:45/40 20:15	07:57 18:12-18:40/28 19:08	07:50 13:53-14:20/27 17:07	08:36 15:54-16:05/11 13:00-13:35/35 16:38 13:37-14:48/71
10	05:41 06:11-06:12/1 22:00	06:23 21:18	07:11 19:04-19:44/40 20:13	07:59 18:13-18:38/25 19:05	07:52 13:50-14:23/33 17:06	08:37 15:54-16:04/10 12:59-13:36/37 16:38 13:37-14:48/71
11	05:42 21:59	06:24 21:16	07:13 19:04-19:43/39 20:11	08:01 18:13-18:36/23 19:03	07:54 13:47-14:25/38 17:04	08:38 15:55-16:04/9 12:59-13:37/38 16:38 13:38-14:49/71
12	05:43 21:58	06:26 21:14	07:14 19:04-19:42/38 20:09	08:02 18:13-18:33/20 19:01	07:56 15:54-16:00/6 17:03 13:45-14:26/41	08:39 15:56-16:04/8 12:59-13:37/38 16:38 13:38-14:49/71
13	05:44 21:57	06:27 21:13	07:16 19:05-19:40/35 20:06	08:04 18:14-18:31/17 18:59	07:57 15:51-16:04/13 17:01 13:43-14:28/45	08:40 15:56-16:04/8 16:38 12:59-14:50/111
14	05:45 21:56	06:29 21:11	07:17 19:04-19:37/33 20:04	08:06 18:15-18:29/14 18:57	07:59 15:50-16:06/16 17:00 13:42-14:30/48	08:41 15:57-16:04/7 16:38 12:59-14:50/111
15	05:46 21:56	06:30 21:09	07:19 19:05-19:35/30 20:02	08:07 18:17-18:27/10 18:55	08:01 15:49-16:07/18 16:59 13:41-14:31/50	08:42 15:58-16:04/6 16:38 12:59-14:51/112
16	05:48 21:55	06:32 21:07	07:21 19:06-19:33/27 20:00	08:09 18:18-18:24/6 18:52	08:02 15:48-16:09/21 16:57 13:40-14:32/52	08:43 15:59-16:04/5 16:38 12:59-14:52/113
17	05:49 21:54	06:34 21:05	07:22 19:07-19:31/24 19:57	08:11 18:21-18:22/1 18:50	08:04 15:47-16:10/23 16:56 13:39-14:34/55	08:44 16:00-16:05/5 16:38 13:00-14:52/112
18	05:50 21:53	06:35 21:03	07:24 19:08-19:28/20 19:55	08:12 18:48	08:06 15:47-16:11/24 16:55 13:39-14:35/56	08:45 16:00-16:04/4 16:39 13:00-14:52/112
19	05:51 21:51	06:37 21:01	07:25 19:10-19:26/16 19:53	08:14 18:46	08:08 15:46-16:11/25 16:53 13:37-14:35/58	08:45 16:00-16:05/5 16:39 13:00-14:53/113
20	05:52 21:50	06:38 20:59	07:27 19:13-19:24/11 19:50	08:16 18:44	08:09 15:46-16:12/26 16:52 13:37-14:36/59	08:46 16:01-16:05/4 16:39 13:01-14:54/113
21	05:54 21:49	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:46-16:13/27 16:51 13:37-14:37/60	08:47 16:01-16:05/4 16:40 13:01-14:54/113
22	05:55 21:48	06:41 20:55	07:30 19:46	08:19 18:40	08:12 15:46-16:13/27 16:50 13:36-14:38/62	08:47 16:02-16:06/4 16:40 13:02-14:55/113
23	05:56 21:47	06:43 20:53	07:32 19:44	08:21 18:38	08:14 15:45-16:13/28 16:49 13:35-14:38/63	08:48 16:02-16:06/4 16:41 13:02-14:55/113
24	05:58 21:45	06:45 20:50	07:33 19:41	08:23 18:36	08:16 15:46-16:14/28 16:48 13:35-14:39/64	08:48 16:02-16:07/5 16:41 13:03-14:55/112
25	05:59 21:44	06:46 19:29-19:31/2 20:48	07:35 19:39	07:24 17:34	08:17 15:46-16:14/28 16:47 13:36-14:40/64	08:48 16:04-16:08/4 16:42 13:03-14:56/113
26	06:00 21:43	06:48 19:23-19:37/14 20:46	07:36 19:37	07:26 17:32	08:19 15:46-16:13/27 16:46 13:35-14:40/65	08:49 16:04-16:08/4 16:43 13:04-14:56/112
27	06:02 21:41	06:49 19:19-19:39/20 20:44	07:38 19:34	07:28 17:30	08:20 15:47-16:13/26 16:45 13:35-14:41/66	08:49 16:04-16:09/5 16:43 13:04-14:56/112
28	06:03 21:40	06:51 19:17-19:42/25 20:42	07:40 18:27-18:36/9 19:32	07:30 17:28	08:22 15:47-16:12/25 16:44 13:35-14:42/67	08:49 16:04-16:10/6 16:44 13:05-14:57/112
29	06:05 21:38	06:52 19:15-19:42/27 20:40	07:41 18:23-18:39/16 19:30	07:31 17:26	08:23 15:47-16:11/24 16:43 13:35-14:42/67	08:49 16:04-16:10/6 16:45 13:06-14:57/111
30	06:06 21:06-21:07/1 21:37	06:54 19:13-19:44/31 20:38	07:43 18:20-18:40/20 19:28	07:33 17:25	08:25 15:48-16:10/22 16:43 13:35-14:43/68	08:50 16:04-16:11/7 16:46 13:06-14:58/112
31	06:08 21:05-21:06/1 21:35	06:56 19:11-19:44/33 20:35		07:35 17:23		08:50 16:04-16:12/8 13:07-13:46/39 16:47 13:47-14:58/71
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	72	152	706	368	1664	3589

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 09:18-09:25/7	07:32 08:04-08:08/4	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:49/1	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46 08:11-08:12/1	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:48/2	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:10-08:12/2	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:45-08:46/1	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42 08:09-08:14/5	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:43-08:46/3	07:23	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43 08:11-08:15/4	08:31
	16:52	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16 08:41-08:45/4	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45 08:13-08:15/2	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:17/2	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13 08:41-08:42/1	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:19/2	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:48-08:56/8	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:46-08:58/12	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08 07:31-07:32/1	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:45-08:59/14	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45 09:14-09:20/6	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04 08:36-08:43/7	07:57 08:44-09:01/17	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:13-09:22/9	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06 08:34-08:44/10	07:59 08:44-09:02/18	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43 09:12-09:23/11	08:00 08:24-08:26/2	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07 08:34-08:45/11	08:01 08:44-09:02/18	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55 08:47-08:53/6	16:59	16:38
16	08:43 09:11-09:24/13	07:58 08:22-08:25/3	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:34-08:54/20	08:02 08:44-09:03/19	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57 08:33-08:39/6	16:38
17	08:42 09:10-09:25/15	07:56 08:20-08:25/5	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11 08:36-08:56/20	08:04 08:44-09:04/20	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56 08:34-08:41/7	16:38
18	08:41 09:10-09:26/16	07:54 08:18-08:23/5	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12 08:38-08:57/19	08:06 08:43-09:03/20	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55 08:36-08:42/6	16:39
19	08:40 09:10-09:27/17	07:52 08:16-08:25/9	06:52	06:44	05:51	05:29	05:51	06:37	07:25	08:14 08:40-08:57/17	08:07 08:44-09:04/20	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53 08:37-08:41/4	16:39
20	08:39 09:09-09:27/18	07:50 08:14-08:25/11	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16 08:42-08:57/15	08:09 08:44-09:04/20	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52 08:39-08:42/3	16:39
21	08:38 09:09-09:28/19	07:48 08:12-08:26/14	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17 08:43-08:56/13	08:11 08:45-09:04/19	08:46
	17:16 09:05-09:06/1	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51 08:41-08:42/1	16:40
22	08:37 09:09-09:29/20	07:46 08:10-08:26/16	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19 08:45-08:56/11	08:12 08:45-09:03/18	08:47
	17:17 09:04-09:07/3	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:10-09:30/20	07:44 08:08-08:26/18	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21 08:47-08:55/8	08:14 08:46-09:03/17	08:47
	17:19 09:03-09:07/4	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:09-09:29/20	07:42 08:06-08:25/19	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22 08:49-08:54/5	08:15 08:47-09:04/17	08:48
	17:21 09:02-09:08/6	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:10-09:30/20	07:40 08:04-08:24/20	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24 07:51-07:56/5	08:17 08:48-09:04/16	08:48
	17:22 09:00-09:07/7	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:11-09:30/19	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26 07:53-07:56/3	08:18 08:49-09:02/13	08:49
	17:24 09:00-09:06/6	18:19 08:14-08:22/8	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:11-09:29/18	07:36 08:02-08:13/11	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28 07:54-07:55/1	08:20 08:51-09:02/11	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:12-09:30/18	07:34 08:02-08:11/9	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:21 08:53-09:02/9	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 09:12-09:29/17		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 08:54-09:00/6	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 09:14-09:28/14		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 09:15-09:27/12		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	329	185	5	0	0	0	0	0	0	172	356	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45 08:16-08:23/7	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:25/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:26/9	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:26/7	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:27/6	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:23-08:27/4	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:26/2	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:27/1	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:38-08:45/7	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:37-08:47/10	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02 08:37-08:48/11	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04 08:36-08:49/13	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41 09:09-09:13/4	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06 08:35-08:49/14	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 09:08-09:14/6	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:50/13	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:06-09:14/8	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09 08:39-08:50/11	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:14/9	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:50/9	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37 09:04-09:15/11	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:51/8	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:03-09:16/13	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:50/6	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:01-09:15/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15 08:46-08:50/4	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:02-09:15/13	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:04-09:15/11	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:04-09:14/10	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:06-09:13/7	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:55/4		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	115	37	0	0	0	0	0	0	0	0	154	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 08:50-08:57/7 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:04-08:10/6 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:57/9 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:06-08:11/5 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:56/10 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:07-08:10/3 17:17	08:29 16:41
4	08:49 16:51	08:19 08:46-08:56/10 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:10/1 17:16	08:30 16:40
5	08:49 16:53	08:18 08:47-08:55/8 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:34 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:18-08:23/5 17:14	08:31 16:40
6	08:48 16:54	08:16 08:49-08:53/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:17-08:25/8 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:40/1 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:16-08:26/10 17:11	08:34 16:39
8	08:48 16:56	08:13 08:38-08:41/3 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:27/10 17:09	08:35 16:39
9	08:47 16:58	08:11 08:36-08:41/5 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 08:19-08:28/9 17:07	08:36 16:39
10	08:47 16:59	08:09 08:34-08:40/6 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:21-08:28/7 17:06	08:37 16:38
11	08:46 17:00	08:07 08:32-08:39/7 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:22-08:27/5 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:24-08:27/3 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:43 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:55	08:44 16:39
19	08:40 17:12	07:52 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:50 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:48 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 18:42	08:11 16:51	08:46 16:40
22	08:37 17:17	07:46 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:47 16:41
24	08:35 17:21	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 18:36	08:15 16:48	08:48 16:41
25	08:33 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 17:32	08:18 16:46	08:48 16:43
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:29 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 16:44	08:49 16:44
29	08:28 08:54-08:55/1 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 08:53-08:56/3 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 08:04-08:06/2 17:25	08:24 16:43	08:49 16:46
31	08:25 08:51-08:56/5 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 08:02-08:09/7 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April	May	June
1	08:49	09:20-09:26/6	08:24	08:50-08:54/4	07:32	07:55-08:17/22	07:23	06:20	05:36
	16:48		17:35		18:25		20:17	21:06	21:50
2	08:49	09:20-09:27/7	08:22	08:48-08:52/4	07:30	07:53-08:18/25	07:21	06:18	05:36
	16:49		17:36		18:26		20:19	21:08	21:51
3	08:49	09:20-09:27/7	08:21		07:28	07:51-07:52/1	07:19	06:16	05:35
	16:50		17:38		18:28	07:53-08:19/26	20:20	21:09	21:53
4	08:49	09:19-09:26/7	08:19		07:26	07:49-08:19/30	07:17	06:15	05:34
	16:51		17:40		18:30		20:22	21:11	21:54
5	08:49	09:20-09:26/6	08:18		07:24	07:46-08:18/32	07:14	06:13	05:34
	16:53		17:42		18:32		20:24	21:13	21:54
6	08:49	09:20-09:25/5	08:16		07:21	07:44-08:18/34	07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48	09:23-09:24/1	08:14		07:19	07:42-08:18/36	07:10	06:09	05:32
	16:55		17:45		18:35		20:27	21:16	21:56
8	08:48		08:13		07:17	07:40-08:18/38	07:08	06:08	05:32
	16:56		17:47		18:37		20:28	21:17	21:57
9	08:47		08:11		07:15	07:38-08:17/39	07:05	06:06	05:31
	16:58		17:49		18:39		20:30	21:19	21:58
10	08:47		08:09		07:13	07:37-08:15/38	07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46		08:08		07:10	07:38-08:14/36	07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46		08:06		07:08	07:39-07:52/13	06:59	06:01	05:30
	17:02		17:54		18:44	07:54-08:13/19	20:35	21:24	22:00
13	08:45		08:04		07:06	07:40-07:50/10	06:57	05:59	05:30
	17:03		17:56		18:45	07:56-08:10/14	20:37	21:25	22:01
14	08:44		08:02		07:04	07:58-08:06/8	06:55	05:58	05:30
	17:05		17:58		18:47		20:38	21:27	22:01
15	08:44		08:00		07:02		06:52	05:56	05:30
	17:06		18:00		18:49		20:40	21:28	22:02
16	08:43		07:58	08:22-08:23/1	06:59		06:50	05:55	05:30
	17:08		18:02	17:32-17:34/2	18:50		20:42	21:30	22:02
17	08:42		07:56	08:20-08:23/3	06:57		06:48	05:53	05:29
	17:09		18:03	17:32-17:36/4	18:52		20:43	21:31	22:03
18	08:41		07:54	08:18-08:22/4	06:55		06:46	05:52	05:29
	17:11		18:05	17:33-17:38/5	18:54		20:45	21:32	22:03
19	08:40		07:53	08:16-08:21/5	06:53		06:44	05:51	05:30
	17:12		18:07	17:34-17:40/6	18:55		20:47	21:34	22:04
20	08:39		07:51	08:16-08:19/3	06:50		06:42	05:49	05:30
	17:14		18:09		18:57		20:48	21:35	22:04
21	08:38		07:49		06:48		06:40	05:48	05:30
	17:16		18:11		18:59		20:50	21:37	22:04
22	08:37		07:47		06:46		06:38	05:47	05:30
	17:17		18:12		19:00		20:51	21:38	22:04
23	08:36		07:45		06:44		06:36	05:46	05:30
	17:19		18:14		19:02		20:53	21:39	22:05
24	08:35		07:43	08:06-08:08/2	06:41		06:34	05:44	05:30
	17:21		18:16		19:04		20:55	21:41	22:05
25	08:33		07:40	08:04-08:08/4	06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32		07:38	08:02-08:13/11	06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31		07:36	08:00-08:15/15	06:34		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30		07:34	07:57-08:16/19	06:32		06:26	05:40	05:32
	17:28		18:23		19:10		21:01	21:46	22:05
29	08:28				07:30		06:24	05:39	05:33
	17:29				20:12		21:03	21:47	22:04
30	08:27	08:53-08:55/2			07:28		06:22	05:38	05:33
	17:31				20:14		21:05	21:48	22:04
31	08:25	08:51-08:54/3			07:25			05:37	
	17:33				20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	44		92		421		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40 18:07-18:10/3	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38 18:04-18:10/6	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36 18:03-18:08/5	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34 17:02-17:05/3	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32 17:01-17:03/2	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	496	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April	May	June
1	08:49		08:24	08:50-08:57/7	07:32		07:23	06:20	05:36
	16:48		17:35	09:06-09:28/22	18:25		20:17	21:06	21:50
2	08:49		08:22	08:48-08:56/8	07:30		07:21	06:18	05:36
	16:49		17:36	09:07-09:27/20	18:26		20:19	21:08	21:51
3	08:49		08:21	08:46-08:55/9	07:28		07:19	06:16	05:35
	16:50		17:38	09:08-09:26/18	18:28		20:20	21:09	21:52
4	08:49		08:19	08:45-08:55/10	07:26		07:16	06:15	05:34
	16:51		17:40	09:10-09:25/15	18:30		20:22	21:11	21:53
5	08:49		08:18	08:43-08:55/12	07:24		07:14	06:13	05:34
	16:53		17:42	09:13-09:22/9	18:32		20:24	21:13	21:54
6	08:49		08:16	08:41-08:56/15	07:21	07:44-07:45/1	07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48		08:14	08:39-08:56/17	07:19	07:42-07:44/2	07:10	06:09	05:32
	16:55		17:45		18:35		20:27	21:16	21:56
8	08:48		08:13	08:38-08:56/18	07:17	07:40-07:42/2	07:08	06:08	05:32
	16:56		17:47		18:37		20:28	21:17	21:57
9	08:47	09:17-09:18/1	08:11	08:36-08:56/20	07:15		07:05	06:06	05:31
	16:58		17:49		18:38		20:30	21:19	21:58
10	08:47	09:16-09:18/2	08:09	08:34-08:55/21	07:13		07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46	09:15-09:18/3	08:07	08:37-08:55/18	07:10		07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46	09:14-09:19/5	08:06	08:38-08:54/16	07:08		06:59	06:01	05:30
	17:02	16:27-16:28/1	17:54		18:44		20:35	21:23	22:00
13	08:45	09:14-09:19/5	08:04	08:39-08:52/13	07:06		06:57	05:59	05:30
	17:03	16:26-16:30/4	17:56		18:45		20:37	21:25	22:01
14	08:44	09:13-09:21/8	08:02	08:42-08:50/8	07:04		06:55	05:58	05:30
	17:05	16:28-16:32/4	17:58		18:47		20:38	21:27	22:01
15	08:44	09:12-09:22/10	08:00		07:01		06:52	05:56	05:30
	17:06	16:28-16:34/6	18:00		18:49		20:40	21:28	22:02
16	08:43	09:11-09:23/12	07:58	08:22-08:23/1	06:59		06:50	05:55	05:30
	17:08	16:28-16:36/8	18:02		18:50		20:42	21:29	22:02
17	08:42	09:10-09:24/14	07:56	08:20-08:22/2	06:57		06:48	05:53	05:30
	17:09	16:28-16:37/9	18:03		18:52		20:43	21:31	22:03
18	08:41	09:09-09:25/16	07:54	08:18-08:19/1	06:55		06:46	05:52	05:30
	17:11	16:29-16:39/10	18:05		18:54		20:45	21:32	22:03
19	08:40	09:08-09:26/18	07:53		06:53		06:44	05:51	05:30
	17:12	16:30-16:41/11	18:07		18:55		20:47	21:34	22:04
20	08:39	09:06-09:26/20	07:51		06:50		06:42	05:49	05:30
	17:14	16:29-16:42/13	18:09		18:57		20:48	21:35	22:04
21	08:38	09:05-09:27/22	07:49		06:48		06:40	05:48	05:30
	17:16	16:31-16:44/13	18:11		18:59		20:50	21:37	22:04
22	08:37	09:04-09:28/24	07:47		06:46		06:38	05:47	05:30
	17:17	16:32-16:44/12	18:12		19:00		20:51	21:38	22:04
23	08:36	09:03-09:28/25	07:45		06:43		06:36	05:46	05:30
	17:19	16:33-16:44/11	18:14		19:02		20:53	21:39	22:05
24	08:35	09:02-09:28/26	07:42		06:41		06:34	05:44	05:30
	17:21	16:35-16:42/7	18:16		19:04		20:55	21:41	22:05
25	08:33	09:02-09:29/27	07:40		06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32	09:03-09:29/26	07:38		06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31	09:03-09:29/26	07:36		06:34		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30	08:56-08:57/1	07:34		06:32		06:26	05:40	05:32
	17:28	09:03-09:30/27	18:23		19:10		21:01	21:46	22:05
29	08:28	08:54-08:57/3			07:30		06:24	05:39	05:33
	17:29	09:03-09:29/26			20:12		21:03	21:47	22:04
30	08:27	08:53-08:58/5			07:28		06:22	05:38	05:33
	17:31	09:05-09:29/24			20:14		21:05	21:48	22:04
31	08:25	08:51-08:57/6			07:25			05:37	
	17:33	09:05-09:28/23			20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	514		280		5		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:19/2	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54	08:19-08:21/2	07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55	16:09-16:16/7	16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53	16:07-16:18/11	16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52	16:07-16:19/12	16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51	16:07-16:20/13	16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50	16:06-16:18/12	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49	16:06-16:17/11	16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48	16:06-16:16/10	16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47	16:06-16:15/9	16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46	16:06-16:14/8	16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45	16:07-16:13/6	16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44	16:07-16:12/5	16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44	16:08-16:11/3	16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43	16:09-16:11/2	16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	63		728		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January		February		March	April	May	June
1	08:49	09:31-09:50/19	08:24		07:32	07:23	06:20	05:36
	16:48		17:35		18:25	20:17	21:06	21:50
2	08:49	09:32-09:51/19	08:22		07:30	07:21	06:18	05:36
	16:49		17:36		18:26	20:19	21:08	21:51
3	08:49	09:31-09:50/19	08:21		07:28	07:19	06:16	05:35
	16:50		17:38		18:28	20:20	21:09	21:52
4	08:49	09:33-09:51/18	08:19		07:26	07:16	06:15	05:34
	16:51		17:40		18:30	20:22	21:11	21:53
5	08:49	09:34-09:51/17	08:18		07:24	07:14	06:13	05:34
	16:53		17:42		18:32	20:24	21:13	21:54
6	08:49	09:34-09:50/16	08:16		07:21	07:12	06:11	05:33
	16:54		17:44		18:33	20:25	21:14	21:55
7	08:48	09:35-09:51/16	08:14	08:39-08:40/1	07:19	07:10	06:09	05:32
	16:55		17:45		18:35	20:27	21:16	21:56
8	08:48	09:36-09:50/14	08:13	08:38-08:39/1	07:17	07:08	06:08	05:32
	16:56		17:47		18:37	20:28	21:17	21:57
9	08:47	09:38-09:50/12	08:11		07:15	07:05	06:06	05:31
	16:58		17:49		18:38	20:30	21:19	21:58
10	08:47	09:39-09:49/10	08:09		07:13	07:03	06:04	05:31
	16:59		17:51		18:40	20:32	21:20	21:59
11	08:46	09:15-09:16/1	08:07		07:10	07:01	06:03	05:31
	17:00	09:41-09:48/7	17:53		18:42	20:33	21:22	21:59
12	08:46	09:14-09:17/3	08:06		07:08	06:59	06:01	05:30
	17:02		17:54		18:44	20:35	21:23	22:00
13	08:45	09:14-09:18/4	08:04		07:06	06:57	05:59	05:30
	17:03		17:56		18:45	20:37	21:25	22:01
14	08:44	09:13-09:19/6	08:02		07:04	06:55	05:58	05:30
	17:05		17:58		18:47	20:38	21:27	22:01
15	08:44	09:12-09:20/8	08:00		07:01	06:52	05:56	05:30
	17:06		18:00		18:49	20:40	21:28	22:02
16	08:43	09:11-09:20/9	07:58		06:59	06:50	05:55	05:30
	17:08		18:02		18:50	20:42	21:29	22:02
17	08:42	09:10-09:21/11	07:56		06:57	06:48	05:54	05:30
	17:09		18:03		18:52	20:43	21:31	22:03
18	08:41	09:09-09:21/12	07:54		06:55	06:46	05:52	05:30
	17:11		18:05		18:54	20:45	21:32	22:03
19	08:40	09:08-09:22/14	07:52		06:53	06:44	05:51	05:30
	17:12		18:07		18:55	20:47	21:34	22:04
20	08:39	09:07-09:22/15	07:51		06:50	06:42	05:49	05:30
	17:14		18:09		18:57	20:48	21:35	22:04
21	08:38	09:05-09:21/16	07:49		06:48	06:40	05:48	05:30
	17:16		18:11		18:59	20:50	21:37	22:04
22	08:37	09:05-09:21/16	07:47		06:46	06:38	05:47	05:30
	17:17		18:12		19:00	20:51	21:38	22:04
23	08:36	09:06-09:22/16	07:45		06:43	06:36	05:46	05:30
	17:19		18:14		19:02	20:53	21:39	22:05
24	08:35	09:06-09:20/14	07:42	08:06-08:07/1	06:41	06:34	05:44	05:30
	17:21		18:16		19:04	20:55	21:41	22:05
25	08:33	09:08-09:20/12	07:40	08:04-08:06/2	06:39	06:32	05:43	05:31
	17:22		18:18		19:05	20:56	21:42	22:05
26	08:32	08:59-09:01/2	07:38		06:37	06:30	05:42	05:31
	17:24	09:09-09:19/10	18:19		19:07	20:58	21:43	22:05
27	08:31	08:57-09:00/3	07:36		06:34	06:28	05:41	05:32
	17:26	09:11-09:17/6	18:21		19:09	21:00	21:44	22:05
28	08:30	08:56-09:00/4	07:34		06:32	06:26	05:40	05:32
	17:28		18:23		19:10	21:01	21:46	22:05
29	08:28	08:54-08:58/4			07:30	06:24	05:39	05:33
	17:29				20:12	21:03	21:47	22:04
30	08:27				07:28	06:22	05:38	05:33
	17:31				20:14	21:04	21:48	22:04
31	08:25				07:25		05:37	
	17:33				20:15		21:49	
Potential sun hours	262		279		367	414	482	494
Sum of minutes with flicker	353		5		0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-08:58/1
	22:04	21:33	20:33	19:25		17:21		16:42	09:23-09:30/7
2	05:34	06:11	06:59	07:46		07:38		08:27	09:22-09:32/10
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:08-08:09/1	08:29	09:21-09:33/12
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:10/1	08:30	09:21-09:35/14
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43		08:31	09:21-09:36/15
	22:02	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52		07:45		08:32	09:20-09:36/16
	22:02	21:25	20:22	19:14		17:12		16:39	
7	05:38	06:18	07:06	07:54		07:47		08:34	09:20-09:37/17
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49		08:35	09:21-09:39/18
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	09:21-09:39/18
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52		08:37	09:21-09:40/19
	21:59	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54		08:38	09:21-09:40/19
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:55		08:39	09:21-09:41/20
	21:58	21:14	20:09	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:30/4	08:40	09:21-09:41/20
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:32/4	08:41	09:22-09:42/20
	21:56	21:10	20:04	18:57		17:00		16:38	
15	05:46	06:30	07:19	08:07		08:01	08:30-08:33/3	08:42	09:22-09:43/21
	21:55	21:09	20:02	18:55		16:59	08:44-08:50/6	16:38	
16	05:48	06:32	07:21	08:09	08:35-08:36/1	08:02	08:32-08:34/2	08:43	09:23-09:44/21
	21:54	21:07	19:59	18:52		16:57	08:42-08:52/10	16:38	09:17-09:19/2
17	05:49	06:34	07:22	08:11	08:36-08:37/1	08:04	08:42-08:54/12	08:44	09:23-09:44/21
	21:53	21:05	19:57	18:50		16:56		16:39	09:17-09:20/3
18	05:50	06:35	07:24	08:12		08:06	08:40-08:54/14	08:44	09:23-09:44/21 09:16-09:21/5
	21:52	21:03	19:55	18:48		16:55		16:39	15:52-15:54/2
19	05:51	06:37	07:25	08:14		08:07	08:40-08:56/16	08:45	09:24-09:45/21 09:17-09:22/5
	21:51	21:01	19:53	18:46		16:53		16:39	15:53-15:55/2
20	05:53	06:38	07:27	08:16		08:09	08:40-08:56/16	08:46	09:25-09:46/21 09:18-09:23/5
	21:50	20:59	19:50	18:44		16:52		16:39	15:52-15:56/4
21	05:54	06:40	07:28	08:17		08:11	08:41-08:57/16	08:46	09:24-09:46/22 09:18-09:23/5
	21:49	20:57	19:48	18:42		16:51		16:40	15:53-15:57/4
22	05:55	06:41	07:30	08:19		08:12	08:43-08:58/15	08:47	09:25-09:47/22 09:19-09:24/5
	21:48	20:54	19:46	18:40		16:50		16:40	15:53-15:57/4
23	05:56	06:43	07:32	08:21		08:14	08:44-08:58/14	08:47	09:26-09:47/21 09:19-09:24/5
	21:46	20:52	19:43	18:38		16:49		16:41	15:54-15:58/4
24	05:58	06:44	07:33	08:23		08:15	08:46-08:58/12	08:48	09:26-09:47/21 09:19-09:24/5
	21:45	20:50	19:41	18:36		16:48		16:41	15:54-15:57/3
25	05:59	06:46	07:35	07:24		08:17	08:48-08:59/11	08:48	09:27-09:48/21 09:20-09:25/5
	21:44	20:48	19:39	17:34		16:47		16:42	15:55-15:57/2
26	06:00	06:48	07:36	07:26		08:18	08:49-08:58/9	08:49	09:27-09:48/21
	21:42	20:46	19:37	17:32		16:46		16:43	09:20-09:25/5
27	06:02	06:49	07:38	07:28		08:20	08:51-08:59/8	08:49	09:27-09:48/21
	21:41	20:44	19:34	17:30		16:45		16:43	09:21-09:24/3
28	06:03	06:51	07:40	07:29		08:22	08:53-08:59/6	08:49	09:28-09:49/21
	21:40	20:42	19:32	17:28		16:44		16:44	09:23-09:24/1
29	06:05	06:52	07:41	07:31		08:23	08:54-08:59/5	08:49	09:28-09:49/21
	21:38	20:40	19:30	17:26		16:44		16:45	
30	06:06	06:54	07:43	07:33		08:24	08:56-08:59/3	08:49	09:29-09:49/20
	21:37	20:37	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35				08:49	09:30-09:50/20
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	2		188		662	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:48/28	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 09:00-09:33/33
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:00-09:34/34
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:00-09:35/35
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:14/5	08:30 09:02-09:36/34
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43 08:11-08:16/5	08:31 09:03-09:36/33
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45 08:13-08:17/4	08:33 09:04-09:36/32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:18/3	08:34 09:06-09:37/31
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:18/1	08:35 09:07-09:38/31
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:38/30
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:38/29
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:39/29
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56 16:26-16:30/4	08:39 09:11-09:39/28
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04 08:32-08:34/2	07:57 16:24-16:31/7	08:40 09:12-09:39/27
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06 08:31-08:37/6	07:59 16:23-16:29/6	08:41 09:13-09:40/27
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30	05:47	06:30	07:19	08:07 08:33-08:38/5	08:01 16:23-16:28/5	08:42 09:14-09:40/26
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:39/4	08:02 08:38-08:42/4	08:43 09:15-09:41/26
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57 16:23-16:27/4	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04 08:36-08:44/8	08:44 09:16-09:42/26
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56 16:22-16:24/2	16:39
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:36-08:46/10	08:44 09:16-09:41/25
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55 16:22-16:23/1	16:39
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:46/9	08:45 09:17-09:42/25
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:39-08:47/8	08:46 09:18-09:43/25
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:48/7	08:46 09:18-09:43/25
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:49/6	08:47 09:19-09:44/25
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:55	19:46	18:40	16:50 09:16-09:22/6	16:40
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:49/5	08:47 09:19-09:44/25
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49 09:13-09:24/11	16:41
24	08:35 09:02-09:12/10	07:43 08:06-08:07/1	06:41	06:34	05:44	05:31	05:58	06:45	07:33	08:23	08:15 08:46-08:49/3	08:48 09:19-09:44/25
	17:21 16:48-16:49/1	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48 09:12-09:26/14	16:41
25	08:33 09:02-09:10/8	07:40 08:04-08:07/3	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48 09:20-09:45/25
	17:22 16:49-16:52/3	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47 09:12-09:28/16	16:42
26	08:32 09:06-09:08/2	07:38 08:02-08:07/5	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19 09:11-09:29/18	08:49 09:20-09:46/26
	17:24 16:50-16:54/4	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 16:50-16:55/5	07:36 08:00-08:06/6	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 09:11-09:30/19	08:49 09:20-09:46/26
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30 16:51-16:58/7	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 09:04-09:06/2	08:49 09:20-09:46/26
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44 09:11-09:32/21	16:44
29	08:28 16:52-16:59/7		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 09:01-09:08/7	08:49 09:20-09:47/27
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44 09:10-09:32/22	16:45
30	08:27 16:55-16:59/4		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:01-09:33/32	08:49 09:20-09:47/27
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:56		07:35		08:49 09:20-09:48/28
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	611	39	0	0	0	0	0	0	0	19	277	871

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: RIN_WT01 - Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,0 m) (17)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18	05:35	05:34	06:10	06:59	07:46	07:38	08:28
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:50	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:44	08:32
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:57	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:18	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:51	08:36
	16:57	17:49	18:39	20:30	21:19	21:58	22:01	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:47	08:08	07:10	07:01	06:03	05:30	05:42	06:24	07:13	08:01	07:54	08:39
	17:00	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:40
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:41
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:45	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:57	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:21	08:09	08:03	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	20:00	18:52	16:57	16:38
17	08:42	07:57	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:04	21:53	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:08	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:36	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:05	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:49
	17:22	18:18	19:05	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:44	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:05	06:52	07:41	07:31	08:23	08:50
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:05	21:37	20:38	19:28	17:25	16:43	16:46
31	08:26		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:50		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:41/2	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:39/2	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:34/2	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08 07:33-07:35/2	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	10	0	0	0	5	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12 06:40-06:41/1	07:00 07:26-07:32/6	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02 07:27-07:32/5	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03 07:29-07:33/4	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:36/2	06:11	05:33	05:37	06:16	07:05 07:30-07:32/2	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:36/4	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07 07:30-07:35/5	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05 07:28-07:34/6	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04 06:29-06:30/1	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55 07:17-07:18/1	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52 07:15-07:18/3	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50 07:13-07:17/4	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48 07:11-07:14/3	06:40	05:48	05:29	05:53	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:45	05:30	05:56	06:43	07:31 07:56-08:00/4	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33 07:58-08:01/3	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:15/3	07:35 07:59-08:01/2	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	11	25	1	0	0	9	26	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June
1	08:49	08:24	07:32		07:23	07:45-07:46/1	06:20		05:36
	16:48	17:34	18:25		20:17		21:06		21:50
2	08:49	08:22	07:30		07:21		06:18		05:35
	16:49	17:36	18:26		20:18		21:08		21:51
3	08:49	08:21	07:28		07:19		06:16		05:35
	16:50	17:38	18:28		20:20		21:09		21:53
4	08:49	08:19	07:26		07:16	07:39-07:40/1	06:14		05:34
	16:51	17:40	18:30		20:22		21:11		21:54
5	08:49	08:18	07:23		07:14	07:37-07:38/1	06:13		05:33
	16:52	17:42	18:31		20:23		21:13		21:54
6	08:49	08:16	07:21		07:12		06:11		05:33
	16:53	17:43	18:33		20:25		21:14		21:55
7	08:48	08:14	07:19		07:10		06:09		05:32
	16:55	17:45	18:35		20:27		21:16		21:56
8	08:48	08:13	07:17		07:07		06:07		05:32
	16:56	17:47	18:37		20:28		21:17		21:57
9	08:47	08:11	07:15		07:05		06:06		05:31
	16:57	17:49	18:38		20:30		21:19		21:58
10	08:47	08:09	07:12		07:03		06:04		05:31
	16:59	17:51	18:40		20:32		21:20		21:59
11	08:46	08:07	07:10		07:01		06:02		05:30
	17:00	17:52	18:42		20:33		21:22		21:59
12	08:46	08:06	07:08		06:59		06:01		05:30
	17:01	17:54	18:43		20:35		21:23		22:00
13	08:45	08:04	07:06		06:57	07:19-07:21/2	05:59		05:30
	17:03	17:56	18:45		20:37		21:25		22:01
14	08:44	08:02	07:04		06:54	07:17-07:22/5	05:58		05:30
	17:04	17:58	18:47		20:38		21:27		22:01
15	08:44	08:00	07:01		06:52	07:15-07:22/7	05:56		05:29
	17:06	18:00	18:49		20:40		21:28		22:02
16	08:43	07:58	06:59		06:50	07:13-07:21/8	05:55		05:29
	17:07	18:01	18:50		20:42		21:29		22:02
17	08:42	07:56	06:57		06:48	07:12-07:20/8	05:53		05:29
	17:09	18:03	18:52		20:43		21:31		22:03
18	08:41	07:54	06:55		06:46	07:13-07:18/5	05:52		05:29
	17:11	18:05	18:54		20:45		21:32		22:03
19	08:40	07:52	06:52		06:44		05:50		05:29
	17:12	18:07	18:55		20:46		21:34		22:04
20	08:39	07:50	06:50		06:42		05:49		05:29
	17:14	18:09	18:57		20:48		21:35		22:04
21	08:38	07:48	06:48		06:40		05:48	06:14-06:15/1	05:29
	17:15	18:10	18:59		20:50		21:37		22:04
22	08:37	07:46	06:46	07:08-07:10/2	06:38		05:47	06:13-06:15/2	05:30
	17:17	18:12	19:00		20:51		21:38		22:04
23	08:36	07:44	06:43	07:06-07:10/4	06:36	06:59-07:01/2	05:45	06:12-06:14/2	05:30
	17:19	18:14	19:02		20:53		21:39		22:05
24	08:35	07:42	06:41	07:03-07:09/6	06:34	06:57-07:00/3	05:44	06:11-06:13/2	05:30
	17:20	18:16	19:04		20:55		21:41		22:05
25	08:33	07:40	06:39	07:01-07:08/7	06:32	06:55-07:00/5	05:43		05:30
	17:22	18:17	19:05		20:56		21:42		22:05
26	08:32	07:38	06:37	07:01-07:06/5	06:30	06:53-06:59/6	05:42		05:31
	17:24	18:19	19:07		20:58		21:43		22:05
27	08:31	07:36	06:34		06:28	06:53-06:57/4	05:41		05:31
	17:26	18:21	19:09		21:00		21:45		22:05
28	08:30	07:34	06:32		06:26		05:40		05:32
	17:27	18:23	19:10		21:01		21:46		22:05
29	08:28		07:30		06:24		05:39		05:32
	17:29		20:12		21:03		21:47		22:05
30	08:27		07:28		06:22		05:38		05:33
	17:31		20:14		21:04		21:48		22:04
31	08:25		07:25				05:37		
	17:33		20:15				21:49		
Potential sun hours	262	279	367		415		482		495
Sum of minutes with flicker	0	0	24		58		7		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10		06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12		07:00		07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02		07:49	07:42	08:30
	22:03		21:29		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03		07:51	07:43	08:31
	22:03		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05		07:52	07:45	08:33
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06	07:32-07:33/1	07:54	07:47	08:34
	22:02		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08	07:33-07:34/1	07:56	07:49	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11		07:59	07:52	08:37
	22:00		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:39/1	08:01	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14		08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16		08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45		06:29		07:17		08:06	07:59	08:41
	21:56		21:10		20:04		18:57	17:00	16:38
15	05:46		06:30		07:19		08:07	08:01	08:42
	21:55		21:09		20:02		18:54	16:58	16:38
16	05:47		06:32	07:00-07:05/5	07:20		08:09	08:02	08:43
	21:54		21:07		19:59		18:52	16:57	16:38
17	05:48		06:33	07:00-07:05/5	07:22	07:50-07:54/4	08:11	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50		06:35	07:02-07:07/5	07:24	07:48-07:55/7	08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36	07:03-07:06/3	07:25	07:50-07:56/6	08:14	08:07	08:45
	21:51		21:01		19:52		18:46	16:53	16:39
20	05:52	06:21-06:23/2	06:38	07:05-07:06/1	07:27	07:52-07:57/5	08:16	08:09	08:46
	21:50		20:59		19:50		18:44	16:52	16:39
21	05:53	06:23-06:25/2	06:40		07:28	07:53-07:56/3	08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55	06:24-06:26/2	06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56	06:25-06:26/1	06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46	07:16-07:21/5	07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47	07:14-07:23/9	07:36		07:26	08:19	08:49
	21:42		20:46		19:37		17:32	16:46	16:42
27	06:02		06:49	07:15-07:23/8	07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51	07:17-07:23/6	07:39		07:29	08:22	08:49
	21:40		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52	07:18-07:23/5	07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54	07:20-07:22/2	07:43		07:33	08:24	08:49
	21:37		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:23		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	9		54		28		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-08:53/3 17:35	07:32 18:25	07:23 20:17	06:20 06:44-06:47/3 21:06 06:53-07:23/30	05:36 21:50
2	08:49 16:49	08:22 08:48-08:52/4 17:36	07:30 18:26	07:21 20:19	06:18 06:42-06:46/4 21:08 06:53-07:22/29	05:35 21:51
3	08:49 16:50	08:21 08:46-08:51/5 17:38	07:28 18:28	07:19 20:20	06:16 06:41-06:46/5 21:09 06:53-07:22/29	05:35 21:52
4	08:49 16:51	08:19 08:45-08:50/5 17:40	07:26 18:30	07:16 20:22	06:14 06:39-06:44/5 21:11 06:53-07:22/29	05:34 21:53
5	08:49 16:52	08:18 08:43-08:49/6 17:42	07:23 18:32	07:14 20:23	06:13 06:53-07:21/28 21:13	05:33 21:54
6	08:49 16:54	08:16 08:41-08:47/6 17:43	07:21 18:33	07:12 20:25	06:11 06:53-07:20/27 21:14	05:33 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:39-08:47/8 17:45	07:19 18:35	07:10 20:27	06:09 06:54-07:20/26 21:16	05:32 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:38-08:48/10 17:47	07:17 18:37	07:08 20:28	06:07 06:32-06:33/1 21:17 06:55-07:19/24	05:32 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:36-08:48/12 17:49	07:15 18:38	07:05 07:28-07:29/1 20:30	06:06 06:31-06:34/3 21:19 06:56-07:18/22	05:31 21:58
10	08:47 09:16-09:21/5 16:59	08:09 08:34-08:48/14 17:51	07:13 18:40	07:03 20:32	06:04 06:29-06:34/5 21:20 06:57-07:17/20	05:31 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:32-08:47/15 17:53	07:10 18:42	07:01 20:33	06:02 06:28-06:36/8 21:22 06:58-07:16/18	05:30 21:59
12	08:46 09:15-09:23/8 17:02	08:06 08:33-08:46/13 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:36/10 21:23 06:59-07:14/15	05:30 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:34-08:45/11 17:56	07:06 07:28-07:29/1 18:45	06:57 20:37	05:59 06:25-06:37/12 21:25 07:02-07:12/10	05:30 22:01
14	08:44 09:13-09:24/11 17:04	08:02 08:35-08:43/8 17:58	07:04 07:26-07:30/4 18:47	06:54 20:38	05:58 06:23-06:36/13 21:27	05:30 22:01
15	08:44 09:12-09:24/12 17:06	08:00 18:00	07:01 07:24-07:31/7 18:49	06:52 20:40	05:56 06:22-06:37/15 21:28	05:30 22:02
16	08:43 09:11-09:25/14 17:08	07:58 18:02	06:59 07:22-07:32/10 18:50	06:50 20:42	05:55 06:21-06:37/16 21:29	05:29 22:02
17	08:42 09:10-09:25/15 17:09	07:56 18:03	06:57 07:19-07:31/12 18:52	06:48 20:43	05:53 06:19-06:36/17 21:31	05:29 22:03
18	08:41 09:09-09:25/16 17:11	07:54 18:05	06:55 07:17-07:31/14 18:54	06:46 20:45	05:52 06:19-06:36/17 21:32	05:29 22:03
19	08:40 09:10-09:25/15 17:12	07:52 18:07	06:52 07:15-07:31/16 18:55	06:44 20:47	05:51 06:19-06:36/17 21:34	05:29 22:04
20	08:39 09:11-09:25/14 17:14	07:50 18:09	06:50 07:16-07:30/14 18:57	06:42 07:08-07:13/5 20:48	05:49 06:20-06:36/16 21:35	05:29 22:04
21	08:38 09:11-09:24/13 17:16	07:49 18:10	06:48 07:16-07:27/11 18:59	06:40 07:04-07:17/13 20:50	05:48 06:19-06:35/16 21:37	05:30 22:04
22	08:37 09:12-09:24/12 17:17	07:46 18:12	06:46 07:18-07:25/7 19:00	06:38 07:01-07:19/18 20:51	05:47 06:20-06:35/15 21:38	05:30 22:04
23	08:36 09:14-09:23/9 17:19	07:44 18:14	06:43 07:06-07:08/2 19:02	06:36 06:59-07:20/21 20:53	05:45 06:21-06:34/13 21:39	05:30 22:05
24	08:35 09:15-09:21/6 17:21	07:42 18:16	06:41 07:04-07:07/3 19:04	06:34 06:58-07:21/23 20:55	05:44 06:22-06:33/11 21:41	05:30 22:05
25	08:33 17:22	07:40 18:18	06:39 07:01-07:05/4 19:05	06:32 06:56-07:22/26 20:56	05:43 06:23-06:32/9 21:42	05:31 22:05
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 06:55-07:22/27 20:58	05:42 06:25-06:30/5 21:43	05:31 22:05
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 06:54-07:22/28 21:00	05:41 21:45	05:31 22:05
28	08:30 17:27	07:34 18:23	06:32 19:10	06:26 06:54-07:22/28 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 20:12	06:24 06:54-07:23/29 21:03	05:39 21:47	05:32 22:04
30	08:27 17:31		07:28 07:50-07:51/1 20:14	06:22 06:46-06:47/1 21:04 06:54-07:23/29	05:38 21:48	05:33 22:04
31	08:25 08:51-08:52/1 17:33		07:25 07:48-07:49/1 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	176	120	107	249	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34		06:09	06:37-06:46/9	06:57		07:44		07:36	08:04-08:17/13	08:26	08:57-09:04/7
	22:04		21:33	07:09-07:25/16	20:33		19:25		17:21		16:42	
2	05:34		06:10	06:39-06:46/7	06:59		07:46		07:38	08:06-08:17/11	08:27	08:59-09:05/6
	22:04		21:32	07:07-07:26/19	20:31		19:23		17:19		16:41	
3	05:35		06:12	06:40-06:44/4	07:00	07:26-07:27/1	07:48		07:40	08:07-08:16/9	08:29	09:00-09:04/4
	22:03		21:30	07:07-07:28/21	20:29		19:21		17:17		16:41	
4	05:36		06:13	06:41-06:43/2	07:02		07:49		07:42	08:09-08:16/7	08:30	09:02-09:05/3
	22:03		21:29	07:05-07:28/23	20:26		19:19		17:16		16:40	
5	05:37		06:15	07:05-07:30/25	07:03		07:51		07:43	08:11-08:17/6	08:31	09:03-09:04/1
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:37		06:16	07:04-07:30/26	07:05		07:52		07:45	08:13-08:19/6	08:33	
	22:02		21:25		20:22		19:14		17:12		16:39	
7	05:38		06:18	07:04-07:31/27	07:06		07:54		07:47	08:15-08:20/5	08:34	
	22:01		21:23		20:20		19:12		17:10		16:39	
8	05:39		06:19	07:03-07:31/28	07:08		07:56		07:49	08:17-08:22/5	08:35	
	22:01		21:22		20:18		19:10		17:09		16:39	
9	05:40		06:21	06:49-06:54/5	07:10		07:57		07:50	08:19-08:23/4	08:36	
	22:00		21:20	07:02-07:31/29	20:15		19:07		17:07		16:38	
10	05:41		06:23	06:50-06:55/5	07:11		07:59		07:52	08:21-08:24/3	08:37	
	22:00		21:18	07:02-07:31/29	20:13		19:05		17:06		16:38	
11	05:42		06:24	06:51-06:55/4	07:13		08:01		07:54	08:23-08:24/1	08:38	
	21:59		21:16	07:01-07:31/30	20:11		19:03		17:04		16:38	
12	05:43		06:26	06:53-06:55/2	07:14		08:02		07:55		08:39	
	21:58		21:14	07:02-07:31/29	20:08		19:01		17:03		16:38	
13	05:44		06:27	06:54-06:55/1	07:16	07:41-07:42/1	08:04		07:57		08:40	
	21:57		21:12	07:01-07:31/30	20:06		18:59		17:01		16:38	
14	05:45		06:29	07:02-07:31/29	07:17		08:06		07:59		08:41	
	21:56		21:10		20:04		18:57		17:00		16:38	
15	05:46		06:30	07:01-07:30/29	07:19		08:07		08:01		08:42	
	21:55		21:09		20:02		18:54		16:58		16:38	
16	05:47		06:32	07:02-07:30/28	07:20		08:09		08:02		08:43	
	21:54		21:07		19:59		18:52		16:57		16:38	
17	05:49		06:33	07:02-07:29/27	07:22		08:11		08:04		08:44	
	21:53		21:05		19:57		18:50		16:56		16:38	
18	05:50	06:34-06:41/7	06:35	07:03-07:28/25	07:24	07:49-07:53/4	08:12		08:06	08:49-08:55/6	08:44	
	21:52		21:03		19:55		18:48		16:54		16:39	
19	05:51	06:32-06:42/10	06:37	07:04-07:26/22	07:25	07:50-07:54/4	08:14		08:07	08:48-08:57/9	08:45	
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52	06:32-06:44/12	06:38	07:05-07:26/21	07:27	07:52-07:55/3	08:16		08:09	08:47-08:59/12	08:46	
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54	06:31-06:45/14	06:40	07:06-07:23/17	07:28	08:05-08:10/5	08:17		08:11	08:47-09:00/13	08:46	
	21:49		20:57		19:48	07:53-07:54/1	18:42		16:51		16:40	
22	05:55	06:30-06:45/15	06:41	07:09-07:21/12	07:30	08:02-08:12/10	08:19		08:12	08:47-09:01/14	08:47	
	21:48		20:54		19:46		18:40		16:50		16:40	
23	05:56	06:30-06:46/16	06:43		07:32	08:00-08:13/13	08:21		08:14	08:46-09:01/15	08:47	
	21:46		20:52		19:43		18:38		16:49		16:41	
24	05:58	06:29-06:46/17	06:44		07:33	07:59-08:14/15	08:23		08:15	08:46-09:02/16	08:48	
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59	06:29-06:47/18	06:46		07:35	07:59-08:14/15	07:24		08:17	08:48-09:03/15	08:48	
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00	06:29-06:47/18	06:48		07:36	08:01-08:14/13	07:26		08:19	08:49-09:03/14	08:49	
	21:42		20:46		19:37		17:32		16:46		16:43	
27	06:02	06:30-06:47/17	06:49		07:38	08:03-08:14/11	07:28	08:07-08:10/3	08:20	08:51-09:04/13	08:49	
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:32-06:48/16	06:51		07:39	08:04-08:12/8	07:29	08:04-08:13/9	08:22	08:53-09:04/11	08:49	
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:33-06:47/14	06:52		07:41	08:06-08:12/6	07:31	08:03-08:15/12	08:23	08:54-09:04/10	08:49	
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:34-06:47/13	06:54		07:43	08:07-08:09/2	07:33	08:02-08:16/14	08:24	08:56-09:04/8	08:49	
	21:37	07:14-07:20/6	20:37		19:28		17:24		16:43		16:46	
31	06:07	06:36-06:47/11	06:55				07:35	08:02-08:17/15			08:49	
	21:35	07:11-07:23/12	20:35				17:23				16:47	
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker		216		581		112		53		226		21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:43/23	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06 19:41-20:01/20	21:50
2	08:49 09:20-09:43/23	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08 19:42-19:59/17	21:51
3	08:49 09:27-09:44/17	08:21	07:28	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:26/6	17:38	18:28	20:20	21:09 19:44-19:56/12	21:52
4	08:49 09:27-09:43/16	08:19	07:26	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:26/7	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:26/7	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:26/8	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:26/8	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:40-07:42/2	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:26/9	17:47	18:37	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-07:43/5	07:05 19:51-19:59/8	06:06 06:35-07:06/31	05:31
	16:57 09:19-09:26/7	17:49	18:38	20:30 08:19-09:09/50	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-07:41/6	07:03 19:47-20:03/16	06:04 06:36-07:05/29	05:31
	16:59 09:20-09:25/5	17:51	18:40	20:32 08:20-09:08/48	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-07:41/8	07:01 19:43-20:04/21	06:03 06:38-07:05/27	05:31
	17:00 09:22-09:23/1	17:53	18:42	20:33 08:19-09:06/47	21:22	21:59
12	08:46	08:06	07:08 07:31-07:39/8	06:59 19:41-20:06/25	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44	20:35 08:20-09:05/45	21:23	22:00
13	08:45	08:04	07:06	06:57 19:40-20:07/27	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37 08:21-09:03/42	21:25	22:01
14	08:44	08:02 08:26-08:30/4	07:04	06:54 19:39-20:08/29	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38 08:22-09:02/40	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:50-07:57/7	06:52 19:38-20:09/31	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40 08:23-09:00/37	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:43-08:03/20	06:50 19:37-20:09/32	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42 08:25-08:58/33	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 19:36-20:09/33	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43 08:26-08:55/29	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 19:36-20:10/34	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45 08:28-08:53/25	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 19:35-20:10/35	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47 08:31-08:49/18	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 19:35-20:10/35	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48 08:37-08:43/6	21:35	22:04
21	08:38	07:49 08:14-08:35/21	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50 19:35-20:09/34	21:37	22:04
22	08:37	07:47 08:14-08:35/21	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51 19:35-20:09/34	21:38	22:04
23	08:36	07:44 08:14-08:34/20	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53 19:35-20:09/34	21:39	22:05
24	08:35	07:42 08:15-08:33/18	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55 19:35-20:08/33	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56 19:35-20:07/32	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58 19:35-20:07/32	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00 19:36-20:06/30	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01 19:36-20:04/28	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03 19:37-20:03/26	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05 19:39-20:03/24	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	217	211	767	1581	541	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December	
1	05:34		06:09	06:49-07:15/26	06:57	19:42-20:03/21	07:44	08:11-08:17/6	07:36	08:26	09:17-09:22/5
	22:04		21:33		20:33	08:19-09:06/47	19:25		17:21	16:42	
2	05:34		06:10	06:48-07:16/28	06:59	19:45-20:01/16	07:46	08:11-08:19/8	07:38	08:27	09:17-09:25/8
	22:04		21:32		20:31	08:18-09:06/48	19:23		17:19	16:41	09:03-09:08/5
3	05:35		06:12	06:46-07:16/30	07:00	19:49-19:57/8	07:48	08:12-08:19/7	07:40	08:29	09:16-09:26/10
	22:03		21:30		20:29	08:17-09:07/50	19:21		17:17	16:41	09:02-09:09/7
4	05:36		06:13	06:45-07:15/30	07:02	08:16-09:07/51	07:49	08:14-08:20/6	07:42	08:30	09:16-09:28/12
	22:03		21:29		20:26		19:19		17:16	16:40	09:02-09:11/9
5	05:37		06:15	06:45-07:16/31	07:03	08:15-09:08/53	07:51	08:16-08:20/4	07:43	08:31	09:15-09:28/13
	22:03		21:27		20:24		19:16		17:14	16:40	09:03-09:12/9
6	05:37		06:16	06:44-07:15/31	07:05	08:14-09:08/54	07:52	08:17-08:18/1	07:45	08:33	09:15-09:29/14
	22:02		21:25		20:22		19:14		17:12	16:39	09:04-09:12/8
7	05:38		06:18	06:46-07:16/30	07:06	08:14-09:08/54	07:54		07:47	08:34	09:16-09:31/15
	22:01		21:23		20:20		19:12		17:11	16:39	09:06-09:13/7
8	05:39		06:19	06:47-07:15/28	07:08	08:13-09:08/55	07:56		07:49	08:35	09:15-09:31/16
	22:01		21:22		20:18		19:10		17:09	16:39	09:07-09:14/7
9	05:40		06:21	06:49-07:15/26	07:10	08:13-09:08/55	07:57		07:50	08:36	09:15-09:32/17
	22:00		21:20	19:57-20:01/4	20:15		19:07		17:07	16:38	09:08-09:14/6
10	05:41		06:23	06:50-07:13/23	07:11	07:36-07:37/1	07:59		07:52	08:37	09:09-09:32/23
	22:00		21:18	19:53-20:06/13	20:13	08:12-09:08/56	19:05		17:06	16:38	
11	05:42		06:24	06:51-07:12/21	07:13	07:38-07:42/4	08:01		07:54	08:38	09:10-09:33/23
	21:59		21:16	19:50-20:08/18	20:11	08:12-09:08/56	19:03		17:04	16:38	
12	05:43		06:26	06:53-07:12/19	07:14	07:39-07:43/4	08:02		07:55	08:39	09:11-09:33/22
	21:58		21:14	19:49-20:10/21	20:09	08:11-09:07/56	19:01		17:03	16:38	
13	05:44		06:27	06:54-07:10/16	07:16	07:41-07:44/3	08:04		07:57	08:40	09:12-09:34/22
	21:57		21:12	19:46-20:10/24	20:06	08:12-09:07/55	18:59		17:01	16:38	
14	05:45		06:29	06:56-07:08/12	07:17	07:42-07:43/1	08:06	08:55-08:57/2	07:59	08:41	09:13-09:34/21
	21:56		21:10	19:46-20:12/26	20:04	08:11-09:06/55	18:57		17:00	16:38	
15	05:46		06:30	06:57-07:08/11	07:19	08:11-09:06/55	08:07	08:51-09:02/11	08:01	08:42	09:14-09:35/21
	21:55		21:09	19:44-20:12/28	20:02		18:55		16:58	16:38	
16	05:48		06:32	06:59-07:10/11	07:21	08:11-09:04/53	08:09	08:48-09:03/15	08:02	08:43	09:15-09:36/21
	21:54		21:07	19:43-20:13/30	19:59		18:52		16:57	16:38	
17	05:49		06:33	07:00-07:10/10	07:22	08:12-09:04/52	08:11	08:47-09:04/17	08:04	08:44	09:16-09:36/20
	21:53		21:05	19:42-20:13/31	19:57		18:50		16:56	16:38	
18	05:50		06:35	07:02-07:11/9	07:24	08:11-09:02/51	08:12	08:46-09:05/19	08:06	08:44	09:16-09:36/20
	21:52		21:03	19:42-20:14/32	19:55		18:48		16:55	16:39	
19	05:51		06:37	07:03-07:10/7	07:25	08:12-09:02/50	08:14	08:45-09:06/21	08:07	08:45	09:17-09:37/20
	21:51		21:01	19:40-20:14/34	19:53		18:46		16:53	16:39	
20	05:52		06:38	07:05-07:11/6	07:27	08:13-09:01/48	08:16	08:45-09:06/21	08:09	08:46	09:18-09:38/20
	21:50		20:59	19:40-20:14/34	19:50		18:44		16:52	16:39	
21	05:54		06:40	07:06-07:10/4	07:28	08:14-08:59/45	08:17	08:44-09:05/21	08:11	08:46	09:18-09:38/20
	21:49		20:57	19:39-20:14/35	19:48		18:42		16:51	16:40	
22	05:55	06:59-07:05/6	06:41	07:08-07:09/1	07:30	08:15-08:58/43	08:19	08:45-09:05/20	08:12	08:47	09:19-09:39/20
	21:48		20:54	19:39-20:14/35	19:46		18:40		16:50	16:40	
23	05:56	06:56-07:07/11	06:43	19:39-20:13/34	07:32	08:16-08:56/40	08:21	08:47-09:05/18	08:14	08:47	09:19-09:39/20
	21:46		20:52	08:39-08:48/9	19:43	07:56-08:01/5	18:38		16:49	16:41	
24	05:58	06:54-07:08/14	06:44	19:39-20:13/34	07:33	08:17-08:54/37	08:23	08:49-09:05/16	08:15	08:48	09:19-09:39/20
	21:45		20:50	08:35-08:54/19	19:41	07:58-08:02/4	18:36		16:48	16:41	
25	05:59	06:54-07:10/16	06:46	19:38-20:12/34	07:35	08:18-08:51/33	07:24	07:51-08:04/13	08:17	08:48	09:20-09:40/20
	21:44		20:48	08:31-08:56/25	19:39	07:59-08:02/3	17:34		16:47	16:42	
26	06:00	06:53-07:11/18	06:48	19:39-20:12/33	07:36	08:21-08:49/28	07:26	07:52-08:02/10	08:19	08:49	09:20-09:40/20
	21:42		20:46	08:29-08:59/30	19:37	08:01-08:02/1	17:32		16:46	16:43	
27	06:02	06:52-07:12/20	06:49	19:39-20:11/32	07:38	08:24-08:46/22	07:28	07:54-08:01/7	08:20	08:49	09:20-09:41/21
	21:41		20:44	08:26-09:00/34	19:34		17:30		16:45	16:43	
28	06:03	06:51-07:14/23	06:51	19:39-20:09/30	07:40	08:27-08:41/14	07:29	07:56-07:59/3	08:22	08:49	09:20-09:41/21
	21:40		20:42	08:25-09:02/37	19:32		17:28		16:44	16:44	
29	06:05	06:50-07:14/24	06:52	19:40-20:09/29	07:41		07:31		08:23	08:49	09:20-09:41/21
	21:38		20:40	08:23-09:03/40	19:30		17:26		16:43	16:45	
30	06:06	06:50-07:14/24	06:54	19:40-20:07/27	07:43		07:33		08:24	08:49	09:20-09:42/22
	21:37		20:37	08:22-09:04/42	19:28		17:25		16:43	16:46	
31	06:07	06:50-07:15/25	06:55	19:41-20:05/24			07:35			08:49	09:20-09:42/22
	21:35		20:35	08:20-09:05/45			17:23			16:47	
Potential sun hours	498		451		380		333		269	248	
Sum of minutes with flicker	181		1333		1387		246		0	628	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:32-09:56/24 16:48	08:24 17:35	07:32 08:12-08:18/6 18:25	07:23 20:17	06:20 06:44-06:45/1 21:06 06:47-06:53/6	05:36 06:27-06:48/21 21:50
2	08:49 09:33-09:57/24 16:49	08:22 17:36	07:30 18:26	07:21 20:19	06:18 06:42-06:44/2 21:08	05:35 06:28-06:49/21 21:52
3	08:49 09:33-09:58/25 16:50	08:21 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 06:28-06:48/20 21:53
4	08:49 09:33-09:57/24 16:51	08:19 08:57-09:04/7 17:40	07:26 18:30	07:16 20:22	06:14 21:11	05:34 06:29-06:47/18 21:54
5	08:49 09:34-09:58/24 16:52	08:18 08:53-09:08/15 17:42	07:24 18:32	07:14 20:24	06:13 21:13	05:33 06:30-06:47/17 21:55
6	08:49 09:34-09:58/24 16:54	08:16 08:51-09:10/19 17:44	07:21 18:33	07:12 20:25	06:11 06:36-06:38/2 21:14	05:33 06:30-06:46/16 21:55
7	08:48 09:35-09:59/24 16:55	08:14 08:49-09:11/22 17:45	07:19 18:35	07:10 20:27	06:09 06:34-06:37/3 21:16	05:32 06:31-06:47/16 21:56
8	08:48 09:35-09:58/23 16:56	08:13 08:48-09:13/25 17:47	07:17 18:37	07:08 20:28	06:07 06:32-06:36/4 21:17	05:32 06:31-06:46/15 21:57
9	08:47 09:37-09:59/22 16:57	08:11 08:47-09:14/27 17:49	07:15 18:38	07:05 20:30	06:06 06:31-06:43/12 21:19	05:31 06:33-06:45/12 21:58
10	08:47 09:37-09:59/22 16:59	08:09 08:46-09:15/29 17:51	07:13 07:44-07:47/3 18:40	07:03 20:32	06:04 06:29-06:44/15 21:20	05:31 06:34-06:45/11 21:59
11	08:46 09:37-09:59/22 17:00	08:08 08:45-09:16/31 17:53	07:10 07:39-07:52/13 18:42	07:01 07:24-07:25/1 20:33	06:02 06:28-06:46/18 21:22	05:30 06:35-06:45/10 22:00
12	08:46 09:39-09:59/20 17:02	08:06 08:45-09:16/31 17:54	07:08 07:36-07:55/19 18:44	06:59 07:21-07:24/3 20:35	06:01 06:26-06:47/21 21:24	05:30 06:35-06:44/9 22:00
13	08:45 09:39-09:59/20 17:03	08:04 08:44-09:17/33 17:56	07:06 07:34-07:55/21 18:45	06:57 07:19-07:24/5 20:37	05:59 06:25-06:48/23 21:25	05:30 06:36-06:43/7 22:01
14	08:44 09:40-09:59/19 17:04	08:02 08:44-09:17/33 17:58 08:26-08:28/2	07:04 07:32-07:56/24 18:47	06:54 07:17-07:23/6 20:38	05:58 06:25-06:48/23 21:27	05:30 06:38-06:43/5 22:01
15	08:44 09:41-09:58/17 17:06	08:00 08:43-09:17/34 18:00 08:24-08:30/6	07:01 07:31-07:57/26 18:49	06:52 07:15-07:21/6 20:40	05:56 06:25-06:49/24 21:28	05:30 06:39-06:42/3 22:02
16	08:43 09:42-09:58/16 17:08	07:58 08:43-09:17/34 18:02 08:22-08:31/9	06:59 07:30-07:58/28 18:50	06:50 20:42	05:55 06:25-06:50/25 21:30	05:29 22:02
17	08:42 09:44-09:57/13 17:09	07:56 08:43-09:17/34 18:03 08:20-08:31/11	06:57 07:29-07:58/29 18:52	06:48 20:43	05:53 06:24-06:49/25 21:31	05:29 22:03
18	08:41 09:46-09:55/9 17:11	07:54 08:43-09:17/34 18:05 08:18-08:32/14	06:55 07:29-07:58/29 18:54	06:46 20:45	05:52 06:24-06:50/26 21:32	05:29 22:03
19	08:40 09:50-09:53/3 17:12	07:53 08:44-09:16/32 18:07 08:16-08:32/16	06:52 07:28-07:58/30 18:55	06:44 20:47	05:51 06:24-06:50/26 21:34	05:29 22:04
20	08:39 17:14	07:51 08:44-09:16/32 18:09 08:14-08:31/17	06:50 07:28-07:58/30 18:57	06:42 20:48	05:49 06:24-06:51/27 21:35	05:29 22:04
21	08:38 17:16	07:49 08:45-09:15/30 18:11 08:12-08:31/19	06:48 07:28-07:56/28 18:59	06:40 07:03-07:05/2 20:50	05:48 06:23-06:50/27 21:37	05:30 22:04
22	08:37 17:17	07:47 08:45-09:14/29 18:12 08:10-08:30/20	06:46 07:28-07:56/28 19:00	06:38 07:01-07:06/5 20:51	05:47 06:23-06:50/27 21:38	05:30 22:04
23	08:36 17:19	07:45 08:46-09:13/27 18:14 08:08-08:29/21	06:43 07:28-07:55/27 19:02	06:36 06:59-07:06/7 20:53	05:45 06:24-06:50/26 21:39	05:30 22:05
24	08:35 17:21	07:42 08:48-09:11/23 18:16 08:07-08:26/19	06:41 07:28-07:53/25 19:04	06:34 06:57-07:06/9 20:55	05:44 06:24-06:50/26 21:41	05:30 22:05
25	08:33 17:22	07:40 08:49-09:10/21 18:18 08:08-08:25/17	06:39 07:29-07:52/23 19:05	06:32 06:55-07:06/11 20:56	05:43 06:24-06:50/26 21:42	05:31 22:05
26	08:32 17:24	07:38 08:51-09:07/16 18:19 08:08-08:24/16	06:37 07:31-07:50/19 19:07	06:30 06:53-07:05/12 20:58	05:42 06:24-06:50/26 21:43	05:31 22:05
27	08:31 17:26	07:36 08:55-09:04/9 18:21 08:09-08:23/14	06:34 07:32-07:48/16 19:09	06:28 06:51-07:04/13 21:00	05:41 06:25-06:50/25 21:45	05:31 22:05
28	08:30 17:27	07:34 08:10-08:20/10 18:23	06:32 07:34-07:44/10 19:10	06:26 06:50-07:03/13 21:01	05:40 06:25-06:49/24 21:46	05:32 06:41-06:45/4 22:05
29	08:28 17:29	 	07:30 20:12	06:24 06:48-07:02/14 21:03	05:39 06:26-06:50/24 21:47	05:32 06:40-06:46/6 22:05
30	08:27 17:31	 	07:28 20:14	06:22 06:46-06:55/9 21:05	05:38 06:26-06:50/24 21:48	05:33 06:40-06:48/8 22:04
31	08:25 17:33	 	07:25 20:15	 	05:37 06:27-06:49/22 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	375	838	434	116	560	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:24/1 20:33	07:44 08:14-08:34/20 19:25	07:36 08:16-08:44/28 17:21	08:26 09:19-09:41/22 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:17-08:32/15 19:23	07:38 08:17-08:44/27 17:19	08:27 09:20-09:42/22 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:19-08:28/9 19:21	07:40 08:17-08:42/25 17:17	08:29 09:20-09:42/22 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 19:19	07:42 08:19-08:41/22 17:16	08:30 09:20-09:43/23 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 19:16	07:43 08:21-08:39/18 17:14	08:31 09:20-09:44/24 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 19:14	07:45 08:23-08:37/14 17:12	08:33 09:20-09:44/24 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 19:12	07:47 08:27-08:33/6 17:11	08:34 09:21-09:45/24 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 09:21-09:45/24 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 17:07	08:36 09:21-09:46/25 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 09:22-09:46/24 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 09:22-09:46/24 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 19:01	07:56 17:03	08:39 09:22-09:47/25 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:44-08:52/8 18:59	07:57 17:01	08:40 09:23-09:47/24 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:42-08:54/12 18:57	07:59 17:00	08:41 09:23-09:48/25 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 09:25-09:38/13 18:54 08:41-08:56/15	08:01 16:58	08:42 09:24-09:48/24 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 09:22-09:39/17 18:52 08:39-08:56/17	08:02 16:57	08:43 09:25-09:49/24 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:39-08:56/17	08:04 16:56	08:44 09:25-09:50/25 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:39-08:59/20	08:06 16:55	08:45 09:25-09:49/24 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-09:00/20	08:07 16:53	08:45 09:26-09:50/24 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-09:02/20	08:09 16:52	08:46 09:27-09:51/24 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:06-07:11/5 20:57	07:28 08:14-08:41/27 19:48	08:17 09:15-09:46/31 18:42 08:43-09:01/18	08:11 16:51	08:46 09:27-09:51/24 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:08-07:10/2 20:55	07:30 08:13-08:42/29 19:46	08:19 09:14-09:46/32 18:40 08:45-09:02/17	08:12 16:50	08:47 09:28-09:52/24 16:40
23	05:56 06:34-07:00/26 21:46	06:43 20:52	07:32 08:12-08:41/29 19:43	08:21 09:14-09:47/33 18:38 08:47-09:02/15	08:14 09:26-09:28/2 16:49	08:48 09:28-09:52/24 16:41
24	05:58 06:34-07:00/26 21:45	06:44 20:50	07:33 08:12-08:41/29 19:41	08:23 09:14-09:47/33 18:36 08:49-09:02/13	08:15 09:23-09:32/9 16:48	08:48 09:28-09:52/24 16:41
25	05:59 06:34-07:01/27 21:44	06:46 20:48	07:35 08:11-08:40/29 19:39	07:24 08:14-08:47/33 17:34 07:51-08:02/11	08:17 09:22-09:35/13 16:47	08:48 09:29-09:53/24 16:42
26	06:00 06:34-07:00/26 21:42	06:48 20:46	07:36 08:11-08:40/29 19:37	07:26 08:14-08:47/33 17:32 07:53-08:01/8	08:19 09:21-09:36/15 16:46	08:49 09:29-09:53/24 16:43
27	06:02 06:34-07:00/26 21:41	06:49 20:44	07:38 08:12-08:40/28 19:34	07:28 08:13-08:46/33 17:30 07:54-07:59/5	08:20 09:20-09:37/17 16:45	08:49 09:29-09:54/25 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:23/6 20:42	07:40 08:12-08:38/26 19:32	07:29 08:13-08:46/33 17:28 07:56-07:57/1	08:22 09:20-09:39/19 16:44	08:49 09:30-09:54/24 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:24/6 20:40	07:41 08:13-08:38/25 19:30	07:31 08:14-08:46/32 17:26	08:23 09:20-09:39/19 16:43	08:49 09:30-09:55/25 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:25/5 20:38	07:43 08:13-08:36/23 19:28	07:33 08:14-08:46/32 17:24	08:25 09:20-09:41/21 16:43	08:49 09:31-09:55/24 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:24/3 20:35		07:35 08:15-08:45/30 17:23		08:49 09:31-09:56/25 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	195	390	751	255	744

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	08:50	10:08-10:30/22	08:24	09:00-09:29/29	07:32		07:23	07:48-07:54/6	06:20		05:36	21:09-21:19/10
	16:48		17:35		18:25		20:17		21:06		21:50	
2	08:49	10:09-10:30/21	08:22	09:00-09:29/29	07:30		07:21	07:51-08:00/9	06:18		05:36	21:08-21:19/11
	16:49		17:36		18:26		20:19	07:43-07:46/3	21:08		21:52	
3	08:49	10:10-10:30/20	08:21	08:59-09:29/30	07:28		07:19	07:41-08:03/22	06:16		05:35	21:08-21:21/13
	16:50		17:38		18:28		20:20		21:09		21:53	
4	08:49	10:10-10:29/19	08:19	09:00-09:30/30	07:26		07:16	07:39-08:06/27	06:15		05:34	21:07-21:21/14
	16:51		17:40		18:30		20:22		21:11		21:54	
5	08:49	10:12-10:30/18	08:18	09:00-09:30/30	07:24		07:14	07:37-08:07/30	06:13		05:33	21:07-21:23/16
	16:52		17:42		18:32		20:24		21:13		21:55	
6	08:49	10:12-10:29/17	08:16	09:00-09:30/30	07:21		07:12	07:34-08:07/33	06:11		05:33	21:07-21:23/16
	16:54		17:44		18:33		20:25		21:14		21:55	
7	08:48	10:14-10:28/14	08:14	09:00-09:30/30	07:19		07:10	07:32-08:08/36	06:09	06:34-06:35/1	05:32	06:01-06:02/1
	16:55		17:45		18:35		20:27		21:16		21:56	21:07-21:24/17
8	08:48	10:15-10:27/12	08:13	09:01-09:30/29	07:17		07:08	07:32-08:09/37	06:08	06:32-06:33/1	05:32	06:01-06:03/2
	16:56		17:47		18:37		20:28		21:17		21:57	21:06-21:24/18
9	08:47	10:18-10:26/8	08:11	09:01-09:30/29	07:15		07:05	07:33-08:09/36	06:06		05:31	06:00-06:03/3
	16:57		17:49		18:38		20:30	07:28-07:30/2	21:19		21:58	21:07-21:26/19
10	08:47		08:09	09:02-09:29/27	07:13		07:03	07:34-08:09/35	06:04		05:31	06:00-06:04/4
	16:59		17:51		18:40		20:32	07:26-07:31/5	21:20		21:59	21:07-21:27/20
11	08:46		08:08	09:02-09:28/26	07:10		07:01	07:37-08:09/32	06:03		05:30	06:00-06:04/4
	17:00		17:53		18:42		20:33	07:24-07:31/7	21:22		22:00	21:06-21:27/21
12	08:46		08:06	09:03-09:27/24	07:08		06:59	07:35-08:08/33	06:01		05:30	05:59-06:04/5
	17:02		17:54		18:44		20:35	07:21-07:30/9	21:24		22:00	21:06-21:27/21
13	08:45		08:04	09:04-09:25/21	07:06		06:57	07:35-08:08/33	05:59		05:30	05:59-06:05/6
	17:03		17:56		18:45		20:37	07:19-07:29/10	21:25		22:01	21:07-21:28/21
14	08:44		08:02	09:06-09:24/18	07:04		06:55	07:35-08:08/33	05:58		05:30	05:59-06:05/6
	17:05		17:58		18:47		20:38	07:17-07:28/11	21:27		22:01	21:07-21:29/22
15	08:44		08:00	09:08-09:21/13	07:01		06:52	07:35-08:07/32	05:56		05:30	05:59-06:05/6
	17:06		18:00		18:49		20:40	07:18-07:26/8	21:28		22:02	21:07-21:29/22
16	08:43		07:58	09:12-09:17/5	06:59		06:50	07:35-08:07/32	05:55		05:29	05:59-06:06/7
	17:08		18:02		18:50		20:42		21:30		22:02	21:07-21:30/23
17	08:42	09:10-09:12/2	07:56		06:57		06:48	07:36-08:06/30	05:53		05:29	05:59-06:06/7
	17:09		18:03		18:52		20:43		21:31		22:03	21:07-21:30/23
18	08:41	09:09-09:13/4	07:54		06:55		06:46	07:36-08:05/29	05:52		05:29	05:59-06:06/7
	17:11		18:05		18:54		20:45		21:32		22:03	21:07-21:30/23
19	08:40	09:08-09:14/6	07:53		06:52		06:44	07:07-07:09/2	05:51		05:29	05:59-06:06/7
	17:12		18:07		18:55		20:47	07:37-08:04/27	21:34		22:04	21:08-21:30/22
20	08:39	09:07-09:15/8	07:51		06:50		06:42	07:05-07:08/3	05:49		05:29	05:59-06:07/8
	17:14		18:09		18:57		20:48	07:38-08:02/24	21:35		22:04	21:08-21:30/22
21	08:38	09:05-09:15/10	07:49		06:48		06:40	07:03-07:06/3	05:48		05:30	05:59-06:07/8
	17:16		18:11		18:59		20:50	07:39-08:00/21	21:37		22:04	21:08-21:30/22
22	08:37	09:04-09:16/12	07:47		06:46		06:38	07:01-07:03/2	05:47		05:30	06:00-06:08/8
	17:17		18:12		19:00		20:51	07:40-07:58/18	21:38		22:04	21:08-21:30/22
23	08:36	09:03-09:17/14	07:45		06:43		06:36	06:59-07:03/4	05:45		05:30	06:00-06:07/7
	17:19		18:14		19:02		20:53	07:43-07:55/12	21:39		22:05	21:09-21:31/22
24	08:35	09:02-09:18/16	07:42		06:41		06:34	06:57-07:02/5	05:44		05:30	06:00-06:07/7
	17:21		18:16		19:04		20:55	07:48-07:49/1	21:41		22:05	21:08-21:31/23
25	08:33	09:00-09:21/21	07:40		06:39		06:32	06:55-07:02/7	05:43		05:31	06:01-06:08/7
	17:22		18:18		19:05		20:56		21:42		22:05	21:08-21:31/23
26	08:32	08:59-09:23/24	07:38		06:37		06:30	06:53-07:01/8	05:42		05:31	06:01-06:08/7
	17:24		18:19		19:07		20:58		21:43		22:05	21:09-21:32/23
27	08:31	08:57-09:24/27	07:36		06:34		06:28	06:51-07:00/9	05:41		05:31	06:02-06:09/7
	17:26		18:21		19:09		21:00		21:45		22:05	21:09-21:31/22
28	08:30	08:57-09:25/28	07:34		06:32	06:55-06:58/3	06:26	06:51-07:00/9	05:40		05:32	06:02-06:08/6
	17:27		18:23		19:10		21:01		21:46		22:05	21:10-21:32/22
29	08:28	08:57-09:26/29			07:30	07:52-07:57/5	06:24	06:53-06:58/5	05:39		05:32	06:03-06:09/6
	17:29				20:12		21:03		21:47		22:05	21:10-21:31/21
30	08:27	08:58-09:27/29			07:28	07:50-07:56/6	06:22		05:38	21:12-21:17/5	05:33	06:03-06:08/5
	17:31				20:14		21:05		21:48		22:04	21:10-21:32/22
31	08:25	08:58-09:28/30			07:25	07:48-07:56/8			05:37	21:10-21:18/8		
	17:33				20:15				21:49			
Potential sun hours	262		279		367		415		482		495	
Sum of minutes with flicker	411		400		22		740		15		737	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26
	22:04 21:10-21:31/21	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27
	22:04 21:11-21:31/20	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 10:01-10:09/8
	22:03 21:12-21:31/19	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 10:01-10:12/11
	22:03 21:12-21:31/19	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15 06:43-06:44/1	07:03 07:29-08:05/36	07:51	07:43 08:29-09:00/31	08:31 09:59-10:13/14
	22:03 21:12-21:30/18	21:27	20:24	19:16	17:14	16:40
6	05:37 21:13-21:30/17	06:16 06:44-06:45/1	07:05 07:30-08:03/33	07:52	07:45 08:30-09:00/30	08:33 09:59-10:15/16
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:14-21:29/15	06:18	07:06 07:32-08:02/30	07:54	07:47 08:30-09:00/30	08:34 09:59-10:17/18
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 21:14-21:29/15	06:19	07:08 07:33-08:00/27	07:56	07:49 08:30-09:00/30	08:35 09:59-10:17/18
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:15-21:28/13	06:21	07:10 07:35-07:58/23	07:57	07:50 08:31-09:00/29	08:36 09:58-10:18/20
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 21:16-21:28/12	06:23	07:11 07:43-07:54/11	07:59	07:52 08:31-09:00/29	08:37 09:58-10:19/21
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 21:17-21:27/10	06:24	07:13 07:40-07:46/6	08:01	07:54 08:30-09:00/30	08:38 09:58-10:20/22
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 21:18-21:27/9	06:26	07:14 07:39-07:47/8	08:02	07:56 08:29-08:58/29	08:39 09:58-10:20/22
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 21:20-21:26/6	06:27	07:16 07:41-07:48/7	08:04	07:57 08:29-08:58/29	08:40 09:58-10:21/23
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 21:23-21:25/2	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 08:29-08:57/28	08:41 09:59-10:22/23
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30 06:57-07:07/10	07:19 07:44-07:47/3	08:07	08:01 08:30-08:57/27	08:42 09:59-10:23/24
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:45-07:46/1	08:09	08:02 08:32-08:56/24	08:43 09:59-10:24/25
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:08/8	07:22	08:11	08:04 08:34-08:55/21	08:44 10:00-10:24/24
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:08/6	07:24	08:12	08:06 08:36-08:52/16	08:45 10:00-10:24/24
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:08/5	07:25	08:14	08:07 08:37-08:51/14	08:45 10:00-10:25/25
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:09/4	07:27	08:16	08:09 08:39-08:51/12	08:46 10:01-10:26/25
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28	08:17	08:11 08:41-08:51/10	08:46 10:01-10:26/25
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30	08:19	08:12 08:43-08:51/8	08:47 10:02-10:27/25
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14 08:44-08:50/6	08:47 10:02-10:27/25
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33	08:23	08:15 08:46-08:50/4	08:48 10:02-10:27/25
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35	07:24	08:17 08:48-08:50/2	08:48 10:04-10:28/24
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36	07:26 08:41-08:49/8	08:19	08:49 10:04-10:28/24
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38	07:28 08:37-08:51/14	08:20	08:49 10:04-10:29/25
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22	08:49 10:05-10:29/24
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23	08:49 10:05-10:29/24
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25	08:49 10:06-10:29/23
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 10:07-10:29/22
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	212	431	347	114	555	629

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:49	08:24		07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34		18:25		20:17		21:06		21:50	
2	08:49	08:22		07:30		07:21		06:18		05:35	06:04-06:14/10
	16:49	17:36		18:26		20:18		21:08		21:51	
3	08:49	08:21		07:28		07:19		06:16		05:35	06:03-06:14/11
	16:50	17:38		18:28		20:20		21:09		21:52	
4	08:49	08:19		07:26		07:16		06:14		05:34	06:02-06:14/12
	16:51	17:40		18:30		20:22		21:11		21:53	
5	08:49	08:18		07:23	07:46-07:47/1	07:14		06:13		05:33	06:02-06:14/12
	16:52	17:42		18:31		20:23		21:13		21:54	
6	08:49	08:16		07:21	07:44-07:47/3	07:12		06:11		05:33	06:01-06:14/13
	16:53	17:43		18:33		20:25		21:14		21:55	
7	08:48	08:14		07:19	07:42-07:47/5	07:10		06:09		05:32	06:01-06:14/13
	16:55	17:45		18:35		20:27		21:16		21:56	
8	08:48	08:13		07:17	07:40-07:47/7	07:07		06:07		05:32	06:00-06:14/14
	16:56	17:47		18:37		20:28		21:17		21:57	
9	08:47	08:11		07:15	07:37-07:46/9	07:05		06:06		05:31	06:00-06:14/14
	16:57	17:49		18:38		20:30		21:19		21:58	
10	08:47	08:09		07:12	07:35-07:45/10	07:03		06:04		05:31	06:00-06:14/14
	16:59	17:51		18:40		20:32		21:20		21:59	
11	08:46	08:07		07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52		18:42		20:33		21:22		21:59	
12	08:46	08:06		07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54		18:43		20:35		21:23		22:00	
13	08:45	08:04		07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56		18:45		20:37		21:25		22:01	
14	08:44	08:02	08:26-08:27/1	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58		18:47		20:38		21:26		22:01	
15	08:44	08:00	08:24-08:27/3	07:01		06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00		18:49		20:40		21:28		22:02	
16	08:43	07:58	08:22-08:27/5	06:59		06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01		18:50		20:42		21:29		22:02	
17	08:42	07:56	08:20-08:26/6	06:57		06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03		18:52		20:43		21:31		22:03	
18	08:41	07:54	08:18-08:25/7	06:55		06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05		18:54		20:45		21:32		22:03	
19	08:40	07:52	08:17-08:24/7	06:52	07:15-07:16/1	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07		18:55		20:46		21:34		22:04	
20	08:39	07:50		06:50	07:13-07:16/3	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09		18:57		20:48		21:35		22:04	
21	08:38	07:48		06:48	07:10-07:15/5	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10		18:59		20:50		21:37		22:04	
22	08:37	07:46		06:46	07:08-07:15/7	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12		19:00		20:51		21:38		22:04	
23	08:36	07:44		06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14		19:02		20:53		21:39		22:05	
24	08:35	07:42		06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16		19:04		20:55		21:41		22:05	
25	08:33	07:40		06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18		19:05		20:56		21:42		22:05	
26	08:32	07:38		06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19		19:07		20:58		21:43		22:05	
27	08:31	07:36		06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21		19:09		21:00		21:45		22:05	
28	08:30	07:34		06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29			20:12		21:03		21:47		22:04	
30	08:27			07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31			20:14		21:04		21:48		22:04	
31	08:25			07:25				05:37	06:05-06:13/8		
	17:33			20:15				21:49			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	29		83		23		33		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:19/15	06:09	06:57	07:44	07:36	08:26
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34 06:04-06:19/15	06:10	06:58	07:46 08:14-08:22/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:19/14	06:12	07:00	07:47 08:12-08:23/11	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:20/14	06:13	07:02	07:49 08:14-08:24/10	07:42	08:30
	22:03	21:29	20:26	19:18	17:15	16:40
5	05:36 06:06-06:19/13	06:15	07:03	07:51 08:16-08:24/8	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:20/13	06:16	07:05	07:52 08:17-08:23/6	07:45	08:32
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:20/12	06:18	07:06	07:54 08:19-08:23/4	07:47	08:34
	22:01	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:21/12	06:19	07:08	07:56 08:21-08:23/2	07:49	08:35
	22:01	21:22	20:17	19:10	17:09	16:39
9	05:40 06:10-06:21/11	06:21	07:09	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:21/10	06:22	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:22/9	06:26	07:14	08:02	07:55	08:39
	21:58	21:14	20:08	19:01	17:03	16:38
13	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:22/7	06:29	07:17	08:06	07:59	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:22/6	06:30	07:19	08:07	08:01	08:42
	21:55	21:08	20:02	18:54	16:58	16:38
16	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:21/3	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:21/2	06:35	07:24	08:12	08:06	08:44
	21:52	21:03	19:55	18:48	16:54	16:38
19	05:51	06:36	07:25 07:51-07:58/7	08:14	08:07	08:45
	21:51	21:01	19:52	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-08:00/8	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 07:53-08:00/7	08:17	08:11	08:46
	21:49	20:56	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 07:55-08:01/6	08:19	08:12	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:15/6	07:31 07:56-08:00/4	08:21 08:47-08:55/8	08:14	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:57	06:44 07:11-07:17/6	07:33 07:58-07:59/1	08:22 08:49-08:56/7	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 07:12-07:17/5	07:35	07:24 07:51-07:57/6	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:47 07:14-07:18/4	07:36	07:26 07:53-07:57/4	08:18	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02	06:49 07:15-07:17/2	07:38	07:28 07:54-07:57/3	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:39	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:04	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:24	08:49
	21:37	20:37	19:27	17:24	16:43	16:46
31	06:07	06:55		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	178	23	33	77	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:16/1	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:15/2	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:11-07:14/3	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:09-07:12/3	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46 07:12-07:16/4	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47 07:14-07:17/3	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49 07:15-07:17/2	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:50 07:17-07:18/1	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	9	16	0	1	22	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:52-07:04/12	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06 06:44-06:50/6	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:54-07:01/7	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08 06:42-06:48/6	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:47/7	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:40-06:46/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:56/7	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:57/7	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 07:02-07:11/9	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16 06:51-06:57/6	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 07:00-07:13/13	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14 06:53-06:58/5	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-07:14/20	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-07:15/19	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30 06:57-07:15/18	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32 06:59-07:16/17	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33 07:00-07:16/16	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35 07:02-07:16/14	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44 07:07-07:08/1	05:50	05:29 05:59-06:09/10	05:51	06:36 07:03-07:15/12	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42 07:05-07:09/4	05:49	05:29 05:59-06:10/11	05:52	06:38 07:05-07:15/10	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40 07:03-07:09/6	05:48	05:29 05:59-06:10/11	05:54	06:40 07:06-07:14/8	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38 07:01-07:10/9	05:47	05:30 06:00-06:11/11	05:55	06:41 07:08-07:14/6	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36 06:59-07:10/11	05:45	05:30 06:00-06:11/11	05:56	06:43 07:09-07:12/3	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34 06:57-07:10/13	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:09/14	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:09/16	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-07:08/17	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-07:07/18	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-07:07/19	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:51-07:06/15	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05 06:46-06:50/4	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	147	44	230	50	190	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-08:50/2 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:46-08:49/3 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:45-08:50/5 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:43-08:49/6 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:41-08:48/7 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:39-08:47/8 17:45	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:38-08:46/8 17:47	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:36-08:45/9 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:34-08:43/9 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:32-08:41/9 17:53	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 18:50	06:50 07:13-07:14/1 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 18:52	06:48 07:11-07:13/2 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 18:54	06:46 07:09-07:11/2 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 18:55	06:44 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:05-09:28/23 17:17	07:47 08:27-08:33/6 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:06-09:28/22 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:06-09:27/21 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:07-09:27/20 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 09:09-09:27/18 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 09:09-09:25/16 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 09:11-09:25/14 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 09:13-09:22/9 17:29		07:30 07:52-08:09/17 20:12	06:24 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 17:31		07:28 07:50-08:09/19 20:14	06:22 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 17:33		07:25 07:48-08:08/20 20:15		05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	321	234	105	82	108	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34	06:04-06:34/30	06:09		06:57		07:44		07:36	08:04-08:13/9	08:26	08:57-09:04/7
	22:04		21:33		20:33		19:25		17:21		16:42	
2	05:34	06:04-06:34/30	06:10		06:59		07:46		07:38	08:06-08:15/9	08:27	08:59-09:05/6
	22:04		21:32		20:31		19:23		17:19		16:41	
3	05:35	06:05-06:34/29	06:12		07:00		07:48		07:40	08:08-08:16/8	08:29	09:00-09:04/4
	22:03		21:30		20:29		19:21		17:17		16:41	
4	05:36	06:06-06:34/28	06:13		07:02		07:49		07:42	08:09-08:17/8	08:30	09:02-09:05/3
	22:03		21:29		20:26		19:19		17:16		16:40	
5	05:37	06:06-06:33/27	06:15		07:03	07:29-07:32/3	07:51		07:43	08:11-08:18/7	08:31	09:03-09:04/1
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:37	06:07-06:33/26	06:16		07:05	07:30-07:32/2	07:52		07:45	08:13-08:19/6	08:33	
	22:02		21:25		20:22		19:14		17:12		16:39	
7	05:38	06:08-06:33/25	06:18		07:06	07:32-07:33/1	07:54		07:47	08:15-08:20/5	08:34	
	22:02		21:23		20:20		19:12		17:10		16:39	
8	05:39	06:09-06:33/24	06:19		07:08	07:45-07:56/11	07:56		07:49	08:17-08:20/3	08:35	
	22:01		21:22		20:18		19:10		17:09		16:39	
9	05:40	06:10-06:33/23	06:21		07:10	07:43-07:58/15	07:57		07:50	08:19-08:20/1	08:36	
	22:00		21:20		20:15		19:07		17:07		16:38	
10	05:41	06:11-06:33/22	06:23		07:11	07:36-07:59/23	07:59		07:52		08:37	
	22:00		21:18		20:13		19:05		17:06		16:38	
11	05:42	06:12-06:32/20	06:24		07:13	07:38-08:00/22	08:01		07:54		08:38	
	21:59		21:16		20:11		19:03		17:04		16:38	
12	05:43	06:13-06:32/19	06:26		07:14	07:39-07:59/20	08:02		07:55		08:39	
	21:58		21:14		20:09		19:01		17:03		16:38	
13	05:44	06:14-06:31/17	06:27		07:16	07:41-08:00/19	08:04		07:57	08:45-08:54/9	08:40	
	21:57		21:12		20:06		18:59		17:01		16:38	
14	05:45	06:15-06:30/15	06:29		07:17	07:42-07:59/17	08:06		07:59	08:43-08:57/14	08:41	
	21:56		21:10		20:04		18:57		17:00		16:38	
15	05:46	06:16-06:29/13	06:30		07:19	07:44-07:59/15	08:07		08:01	08:42-08:58/16	08:42	
	21:55		21:09		20:02		18:54		16:58		16:38	
16	05:47	06:17-06:28/11	06:32		07:20	07:45-07:58/13	08:09		08:02	08:42-09:00/18	08:43	
	21:54		21:07		19:59		18:52		16:57		16:38	
17	05:49	06:18-06:26/8	06:33		07:22	07:47-07:58/11	08:11		08:04	08:41-09:01/20	08:44	
	21:53		21:05		19:57		18:50		16:56		16:38	
18	05:50	06:19-06:23/4	06:35		07:24	07:48-07:56/8	08:12		08:06	08:40-09:01/21	08:44	
	21:52		21:03		19:55		18:48		16:54		16:39	
19	05:51		06:37		07:25	07:50-07:55/5	08:14		08:07	08:40-09:02/22	08:45	
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52		06:38		07:27	07:52-07:53/1	08:16	08:57-09:05/8	08:09	08:40-09:03/23	08:46	
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54		06:40		07:28		08:17	08:54-09:07/13	08:11	08:41-09:03/22	08:46	
	21:49		20:57		19:48		18:42		16:51		16:40	
22	05:55		06:41		07:30		08:19	08:52-09:09/17	08:12	08:43-09:04/21	08:47	
	21:48		20:54		19:46		18:40		16:50		16:40	
23	05:56		06:43		07:32		08:21	08:51-09:10/19	08:14	08:44-09:03/19	08:47	
	21:46		20:52		19:43		18:38		16:49		16:41	
24	05:58	06:29-06:32/3	06:44		07:33		08:23	08:51-09:11/20	08:15	08:46-09:04/18	08:48	
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59	06:28-06:34/6	06:46	07:12-07:14/2	07:35		07:24	07:51-08:11/20	08:17	08:48-09:05/17	08:48	
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00	06:29-06:35/6	06:48	07:14-07:16/2	07:36		07:26	07:53-08:11/18	08:19	08:49-09:04/15	08:49	
	21:42		20:46		19:37		17:32		16:46		16:43	
27	06:02	06:30-06:36/6	06:49	07:15-07:16/1	07:38		07:28	07:54-08:11/17	08:20	08:51-09:05/14	08:49	
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:32-06:37/5	06:51		07:39		07:29	07:56-08:11/15	08:22	08:53-09:05/12	08:49	
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:33-06:37/4	06:52		07:41		07:31	07:58-08:10/12	08:23	08:54-09:05/11	08:49	
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:34-06:37/3	06:54		07:43		07:33	08:00-08:10/10	08:24	08:56-09:05/9	08:49	
	21:37		20:37		19:28		17:24		16:43		16:46	
31	06:07	06:36-06:38/2	06:55				07:35	08:02-08:11/9			08:49	
	21:35		20:35				17:23				16:47	
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker		406		5		186		178		357		21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 17:34	07:32 18:24	07:23 07:45-07:48/3 20:17	06:20 21:06	05:36 21:50	05:33 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 17:21	08:26 16:42
2	08:49 16:49	08:22 17:36	07:30 18:26	07:21 07:43-07:46/3 20:18	06:18 21:08	05:35 21:51	05:34 22:04	06:10 21:32	06:58 20:31	07:46 19:23	07:38 17:19	08:27 16:41
3	08:49 16:50	08:21 17:38	07:28 18:28	07:18 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 07:26-07:28/2 20:29	07:47 19:21	07:40 17:17	08:29 16:41
4	08:49 16:51	08:19 17:40	07:26 18:30	07:16 20:22	06:14 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 07:27-07:28/1 20:26	07:49 19:18	07:42 17:15	08:30 16:40
5	08:49 16:52	08:18 17:42	07:23 18:31	07:14 20:23	06:13 21:12	05:33 21:54	05:36 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 17:14	08:31 16:40
6	08:48 16:53	08:16 17:43	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 17:12	08:32 16:39
7	08:48 16:55	08:14 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 17:10	08:34 16:39
8	08:48 16:56	08:13 17:47	07:17 18:37	07:07 07:30-07:31/1 20:28	06:07 21:17	05:32 21:57	05:39 22:01	06:19 21:22	07:08 20:17	07:56 19:10	07:48 17:09	08:35 16:38
9	08:47 16:57	08:11 17:49	07:15 18:38	07:05 07:28-07:30/2 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:09 20:15	07:57 19:07	07:50 17:07	08:36 16:38
10	08:47 16:59	08:09 17:51	07:12 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:22 21:18	07:11 07:36-07:39/3 20:13	07:59 19:05	07:52 17:06	08:37 16:38
11	08:46 17:00	08:07 17:52	07:10 18:42	07:01 20:33	06:02 21:22	05:30 21:59	05:42 21:59	06:24 21:16	07:13 07:38-07:41/3 20:11	08:00 19:03	07:54 17:04	08:38 16:38
12	08:46 17:01	08:06 17:54	07:08 18:43	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:25 21:14	07:14 07:39-07:41/2 20:08	08:02 19:01	07:55 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:56 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 07:41-07:42/1 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:04	08:02 17:58	07:04 18:47	06:54 20:38	05:58 21:26	05:29 22:01	05:45 06:15-06:19/4 21:56	06:29 21:10	07:17 20:04	08:05 18:56	07:59 17:00	08:41 16:38
15	08:43 17:06	08:00 18:00	07:01 18:48	06:52 20:40	05:56 21:28	05:29 22:02	05:46 06:16-06:20/4 21:55	06:30 21:08	07:19 20:02	08:07 18:54	08:01 16:58	08:42 16:38
16	08:43 17:07	07:58 18:01	06:59 07:22-07:23/1 18:50	06:50 20:41	05:55 21:29	05:29 22:02	05:47 06:17-06:21/4 21:54	06:32 21:06	07:20 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 07:19-07:21/2 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:48 06:18-06:21/3 21:53	06:33 21:05	07:22 19:57	08:10 18:50	08:04 16:56	08:44 16:38
18	08:41 17:10	07:54 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 06:19-06:21/2 21:52	06:35 21:03	07:23 19:55	08:12 18:48	08:06 16:54	08:44 16:38
19	08:40 17:12	07:52 18:07	06:52 18:55	06:44 20:46	05:50 21:34	05:29 22:04	05:51 06:20-06:22/2 21:51	06:36 21:00	07:25 19:52	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:50 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:29 22:04	05:52 06:21-06:22/1 21:50	06:38 20:58	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:15	07:48 18:10	06:48 18:59	06:40 20:50	05:48 21:37	05:29 22:04	05:53 21:49	06:39 20:56	07:28 19:48	08:17 18:42	08:11 16:51	08:46 16:39
22	08:37 17:17	07:46 18:12	06:46 19:00	06:38 20:51	05:46 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:44 18:14	06:43 19:02	06:35 20:53	05:45 21:39	05:30 22:05	05:56 21:46	06:43 20:52	07:31 19:43	08:21 18:38	08:14 16:49	08:47 16:40
24	08:35 17:20	07:42 18:16	06:41 19:04	06:33 20:55	05:44 06:11-06:12/1 21:41	05:30 22:05	05:57 21:45	06:44 20:50	07:33 19:41	08:22 18:36	08:15 16:48	08:48 16:41
25	08:33 17:22	07:40 18:17	06:39 19:05	06:31 20:56	05:43 06:10-06:12/2 21:42	05:30 22:05	05:59 21:44	06:46 20:48	07:35 19:39	08:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:29 20:58	05:42 06:09-06:12/3 21:43	05:31 22:05	06:00 21:42	06:47 20:46	07:36 08:01-08:03/2 19:36	08:26 17:32	08:18 16:46	08:49 16:42
27	08:31 17:26	07:36 18:21	06:34 19:08	06:27 21:00	05:41 06:08-06:11/3 21:44	05:31 22:05	06:02 21:41	06:49 20:44	07:38 08:03-08:05/2 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:29 17:27	07:34 18:23	06:32 19:10	06:26 21:01	05:40 06:07-06:11/4 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 16:44	08:49 16:44
29	08:28 17:29		07:30 20:12	06:24 21:03	05:39 06:06-06:10/4 21:47	05:32 22:04	06:04 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 17:31		07:27 20:13	06:22 21:04	05:38 06:07-06:09/2 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:27	07:33 17:24	08:24 16:42	08:49 16:46
31	08:25 17:33		07:25 07:48-07:50/2 20:15		05:37 21:49		06:07 21:35	06:55 20:35		07:35 17:22		08:49 16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	5	9	19	0	20	0	16	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:09	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16 07:41-07:42/1	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17 07:42-07:43/1	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30 07:52-07:53/1	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27 07:50-07:51/1	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	2	3	0	0	0	3	2	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	498	371	355	712	1.315	1.568	877	636	561	8.546

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:13/9	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51 06:17-06:33/16	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52 06:19-06:33/14	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:15/12	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53 06:19-06:33/14	22:04 06:30-06:33/3	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:15/13	05:36 06:06-06:23/17	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54 06:19-06:32/13	22:03 06:29-06:35/6	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:16/14	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55 06:20-06:32/12	22:03 06:28-06:36/8	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:16/15	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56 06:21-06:31/10	22:02 06:27-06:37/10	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:17/16	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56 06:22-06:31/9	22:02 06:27-06:38/11	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57 06:23-06:29/6	22:01 06:27-06:39/12	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58 06:24-06:29/5	22:00 06:26-06:40/14	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:18/18	05:41 06:11-06:22/11	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00 06:26-06:40/14	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:00-06:19/19	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59 06:26-06:41/15	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:21/8	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58 06:26-06:42/16	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:20/6	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57 06:25-06:42/17	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:27/4	05:30 06:00-06:19/19	05:45 06:15-06:19/4	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56 06:25-06:43/18	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:29/7	05:29 06:00-06:20/20	05:46 06:25-06:43/18	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:31/10	05:29 06:01-06:20/19	05:47 06:25-06:43/18	06:32	07:21	08:09	08:02	08:43
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17	08:42	07:56	06:57	06:48	05:53 06:19-06:31/12	05:29 06:01-06:20/19	05:49 06:25-06:44/19	06:33	07:22	08:11	08:04	08:44
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19	08:40	07:53	06:52	06:44	05:51 06:17-06:33/16	05:29 06:01-06:21/20	05:51 06:24-06:44/20	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:16-06:34/18	05:29 06:01-06:21/20	05:52 06:24-06:44/20	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:15-06:33/18	05:30 06:01-06:21/20	05:54 06:25-06:44/19	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47 06:15-06:34/19	05:30 06:02-06:22/20	05:55 06:25-06:44/19	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:15-06:34/19	05:30 06:02-06:22/20	05:56 06:25-06:44/19	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44 06:15-06:34/19	05:30 06:02-06:22/20	05:58 06:26-06:43/17	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43 06:15-06:34/19	05:31 06:03-06:22/19	05:59 06:28-06:43/15	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:15-06:34/19	05:31 06:03-06:22/19	06:00 06:29-06:42/13	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:15-06:34/19	05:31 06:03-06:22/19	06:02 06:30-06:41/11	06:49	07:38	07:28	08:20	08:49
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29	08:28		07:30	06:24	05:39 06:07-06:08/1	05:32 06:03-06:22/19	06:05 06:33-06:39/6	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47 06:17-06:34/17	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:11/5	05:33 06:04-06:23/19	06:06 06:34-06:36/2	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48 06:17-06:34/17	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:12/7		06:07	06:55		07:35		08:50
	17:33		20:15		21:49 06:17-06:34/17		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	296	630	575	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

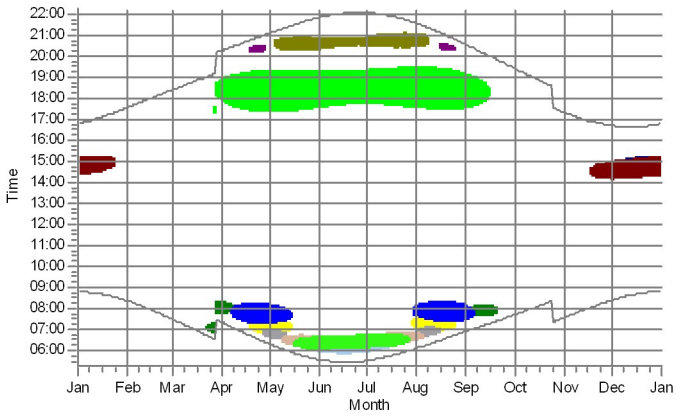
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

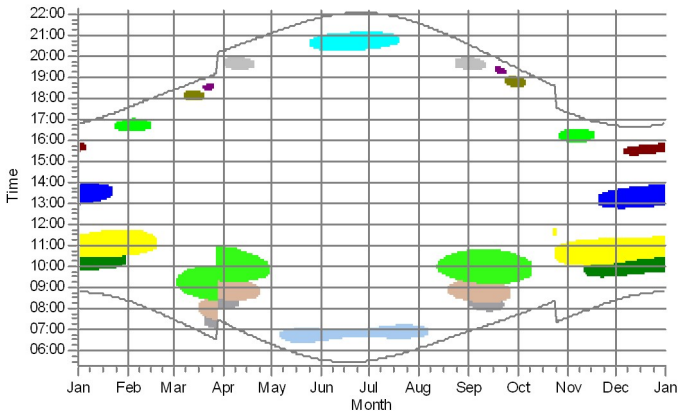
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

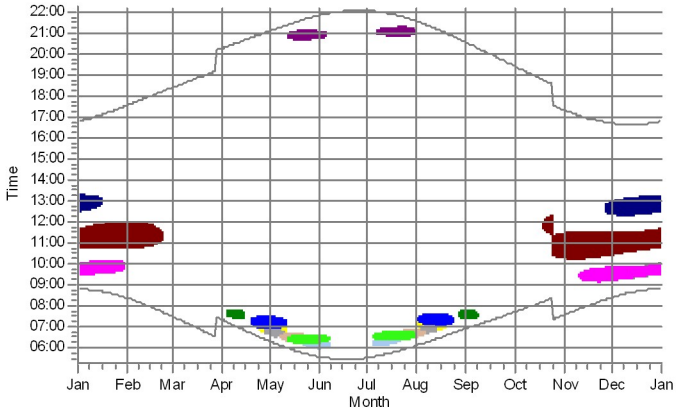
KLZ_WT21: KLZ_WT21 Armsteel



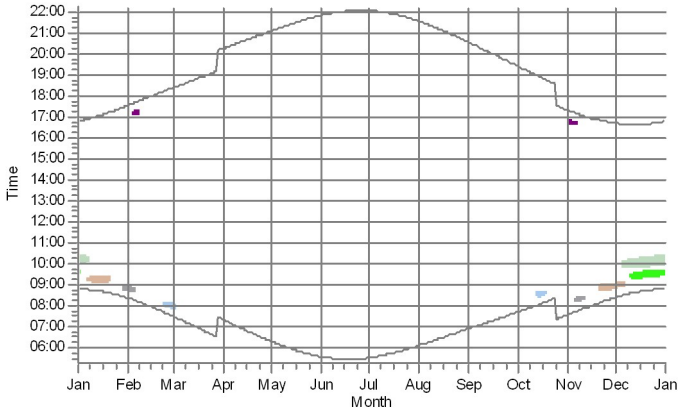
KLZ_WT22: KLZ_WT22 Magelaanstraat



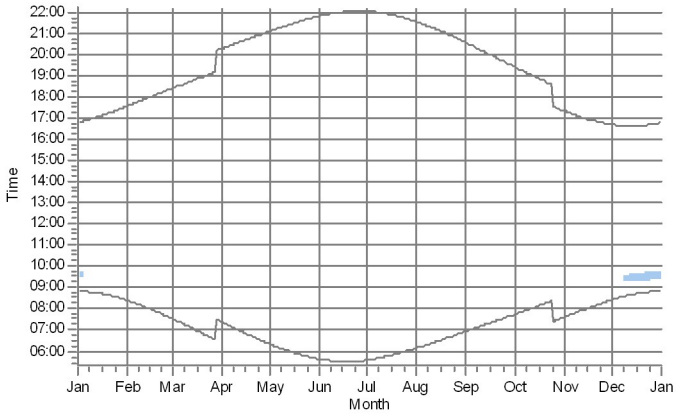
KLZ_WT23: KLZ_WT23 Stukw erkers



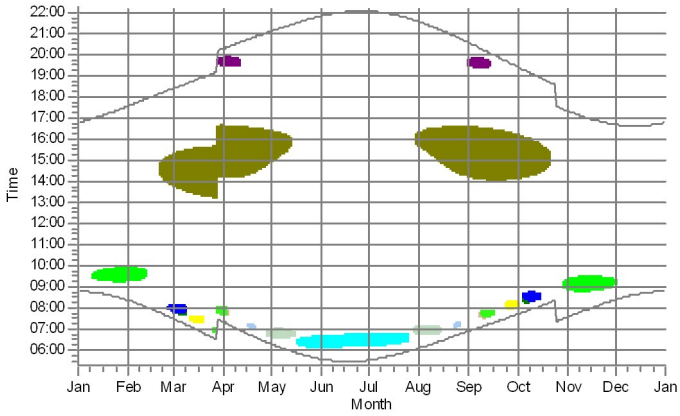
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 19



ATS_WT01: NORDEX N149/5.X-pow ercurve 5700 149.0 !O! hub: 156,5 m



CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

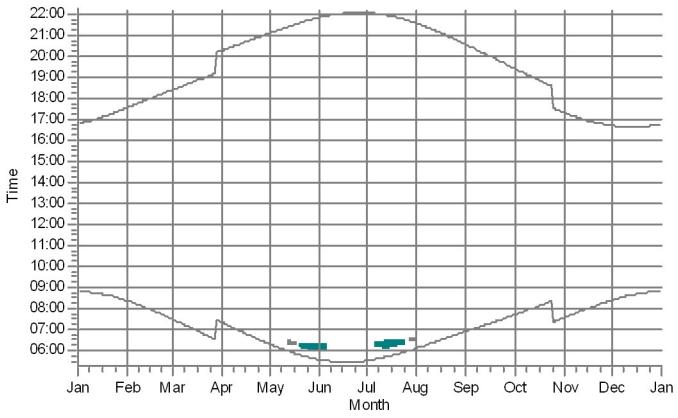
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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

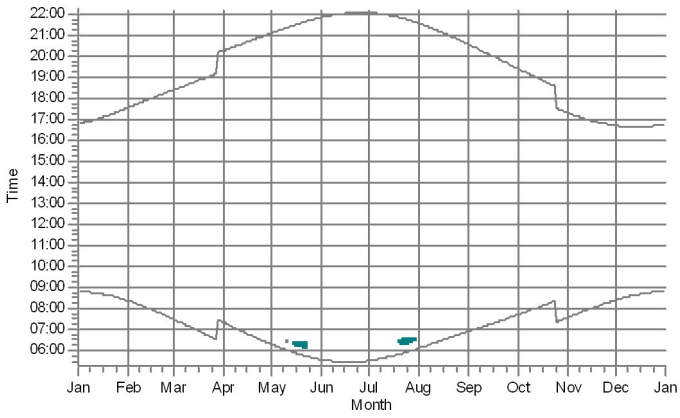
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

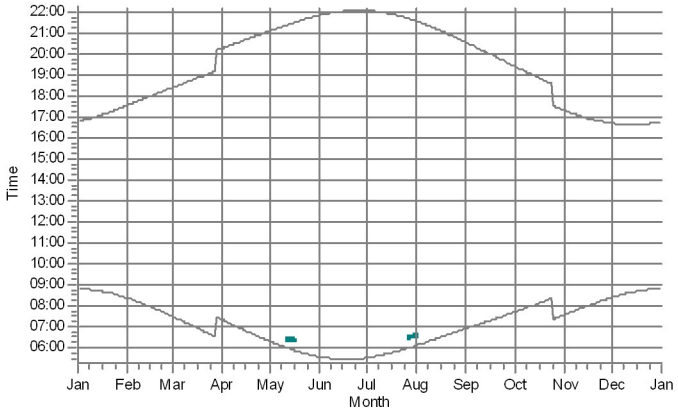
EAM_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 20



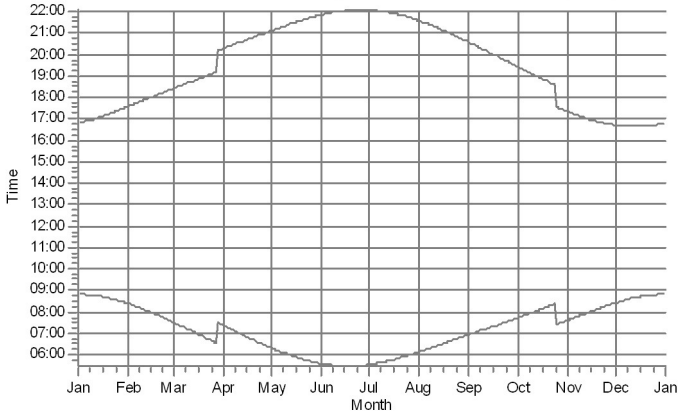
EAM_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 20



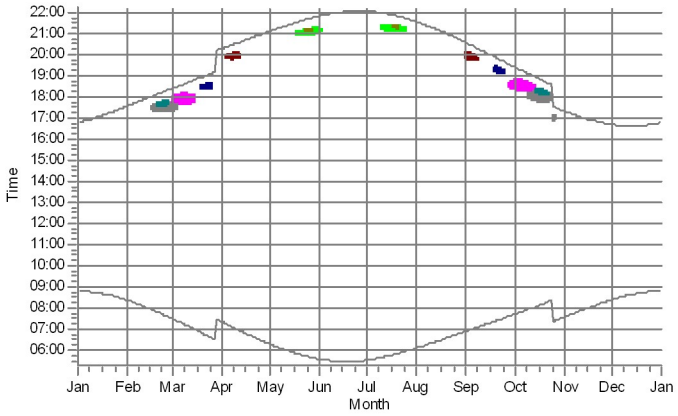
EAM_WT03: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 20



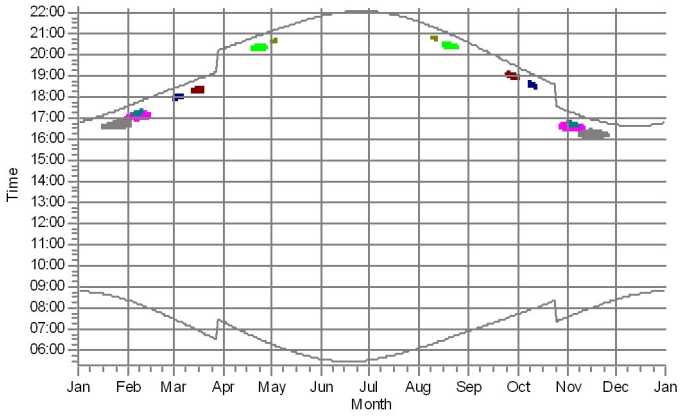
EAM_WT05: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 20



EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



Shadow receptors

- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent

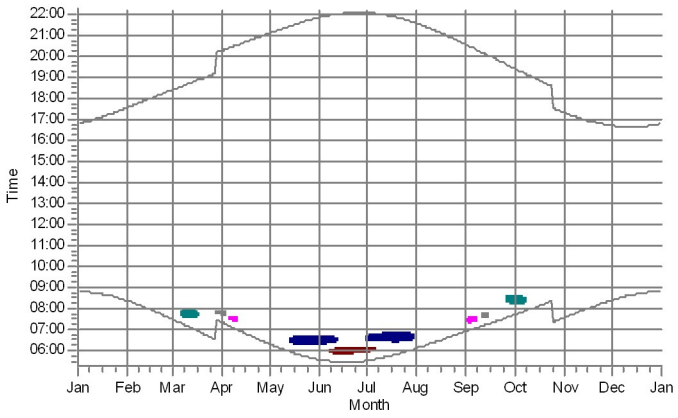
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+31 (0)88 4261 261

Calculated:
09/04/2026 09:13/4.1.264

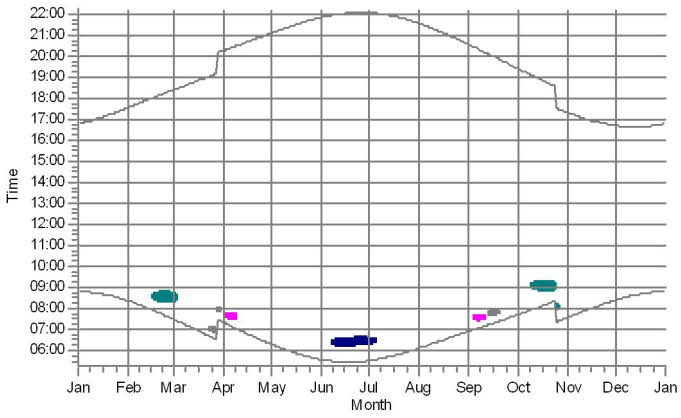
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

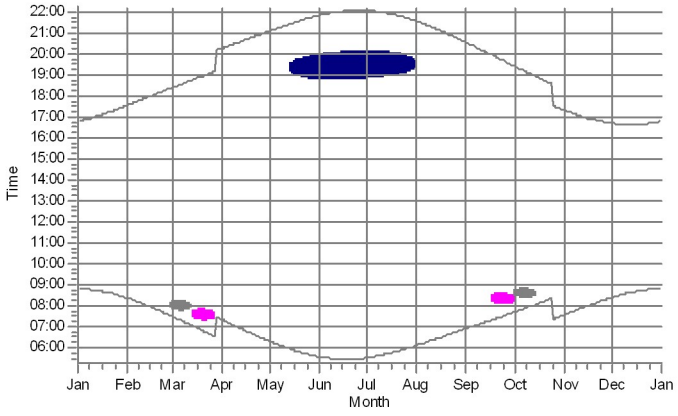
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



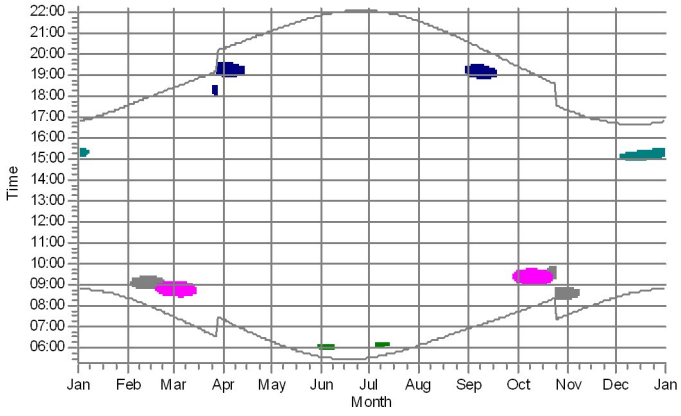
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



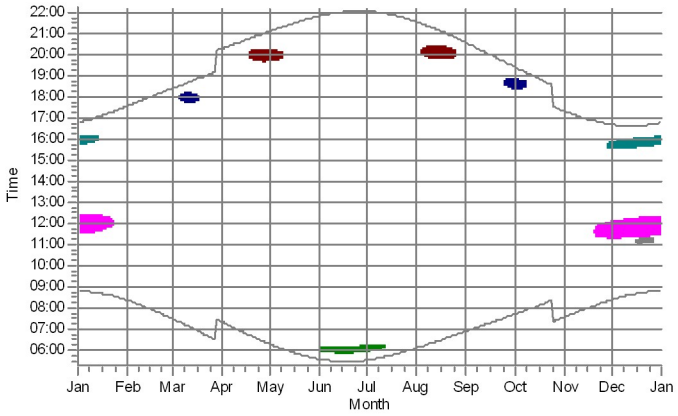
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



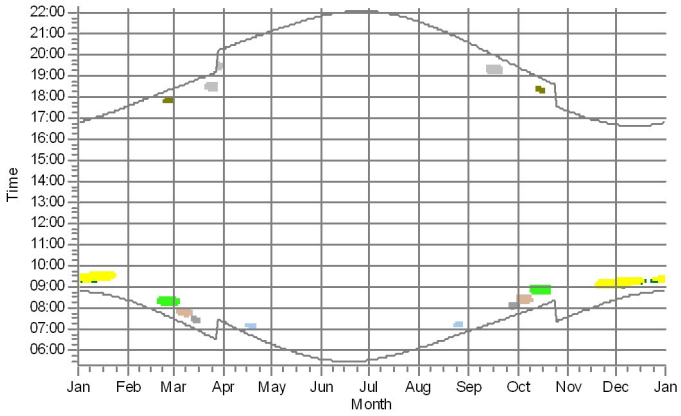
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

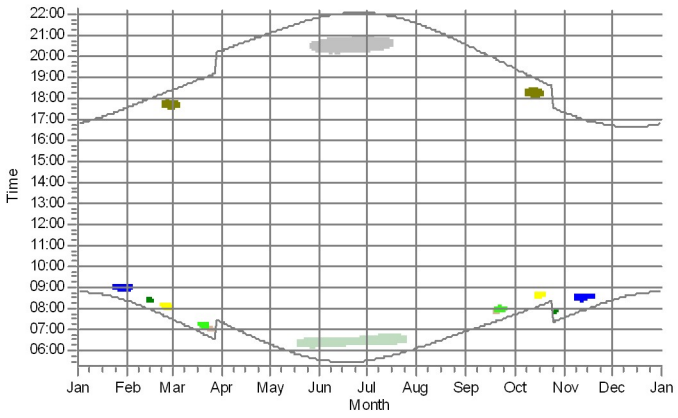
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Calculated:
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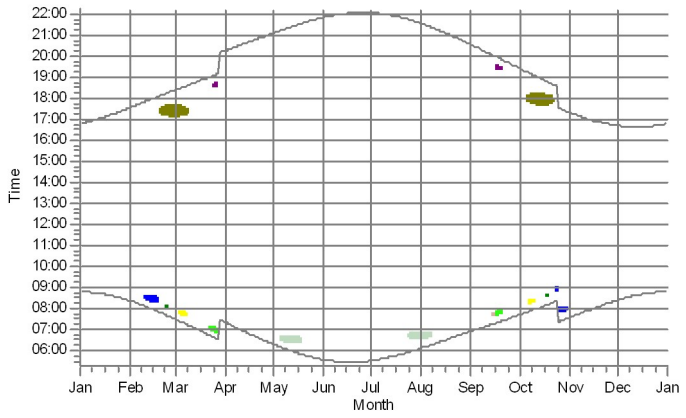
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

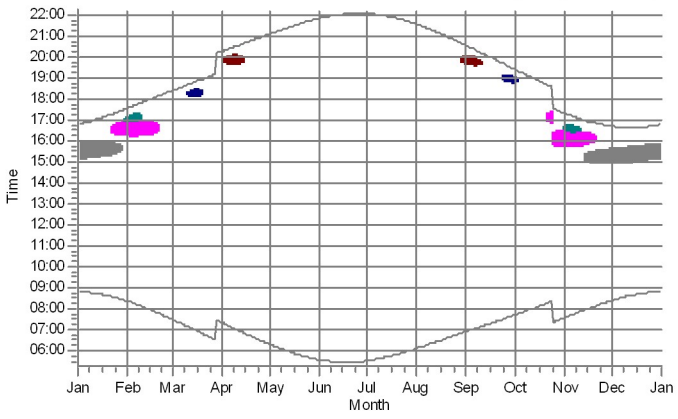
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



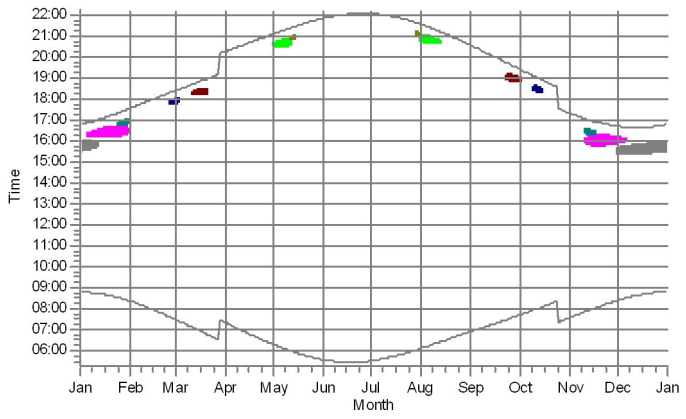
KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



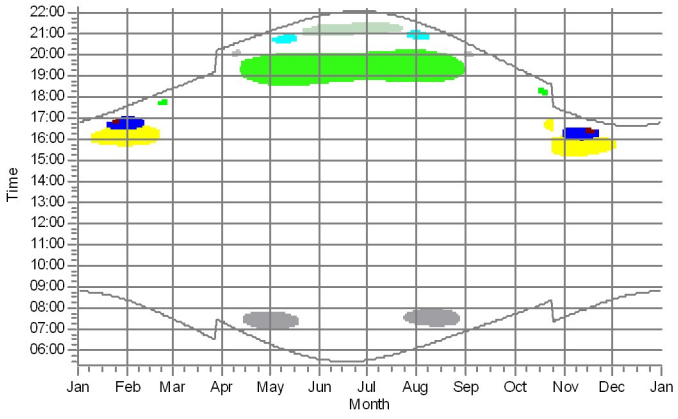
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



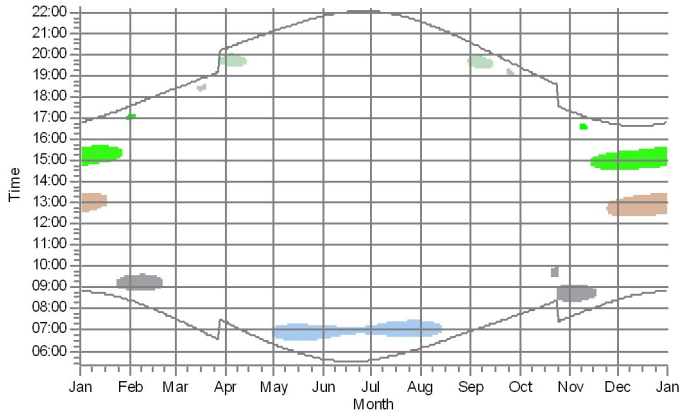
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

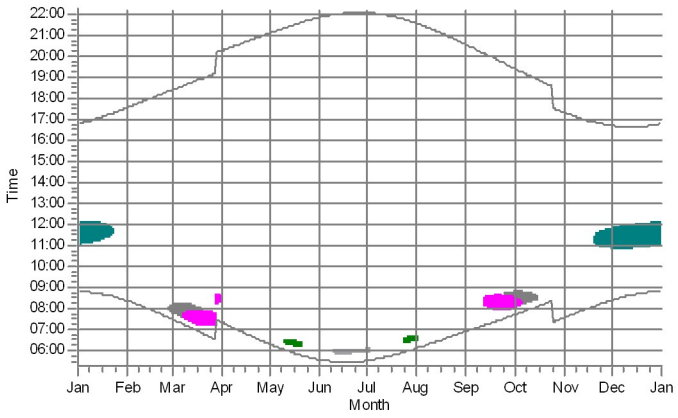
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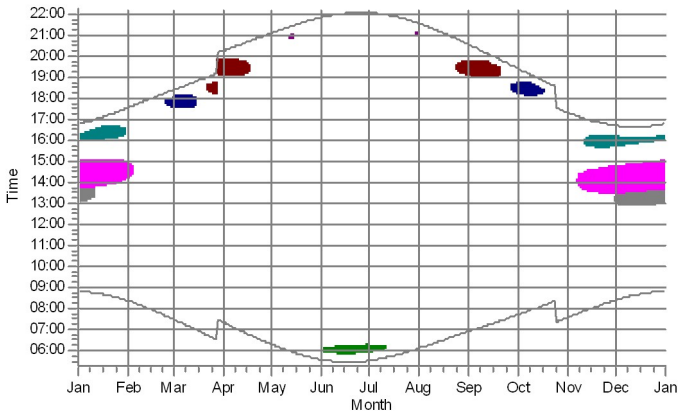
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

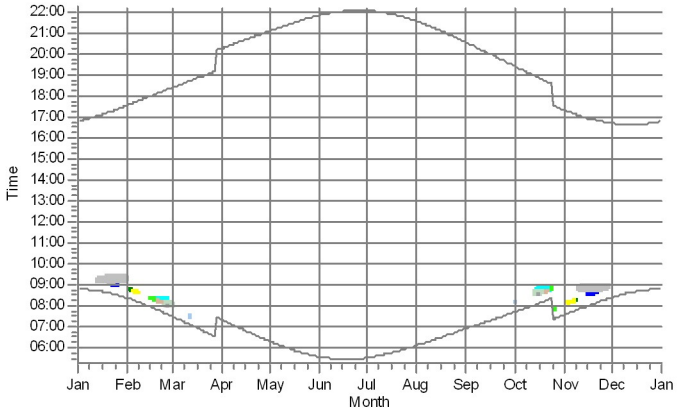
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



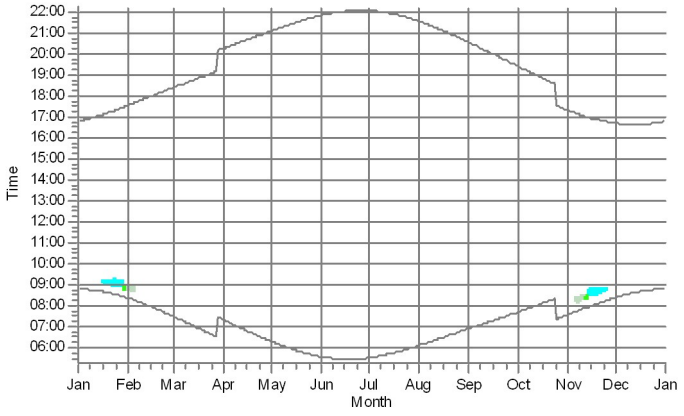
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



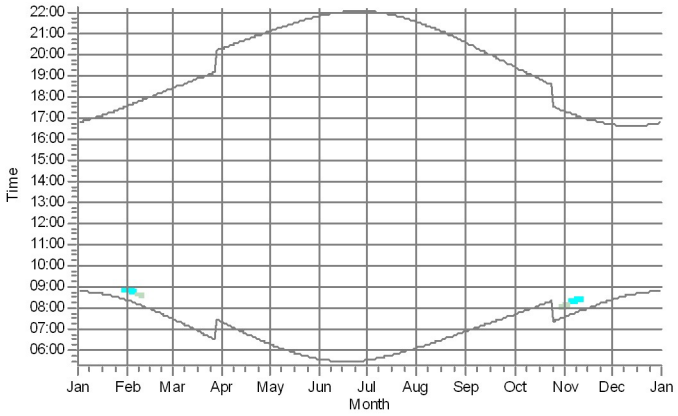
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 23



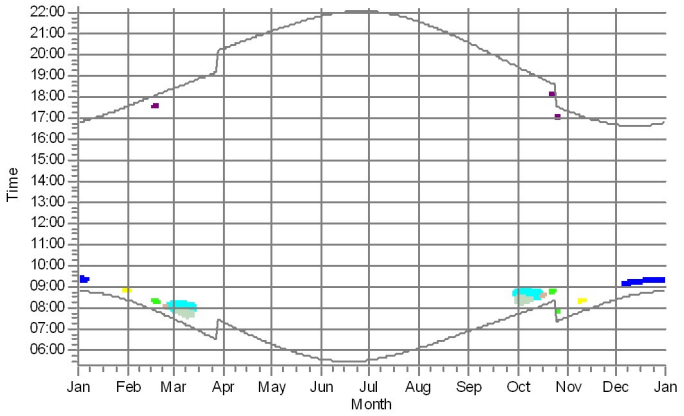
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

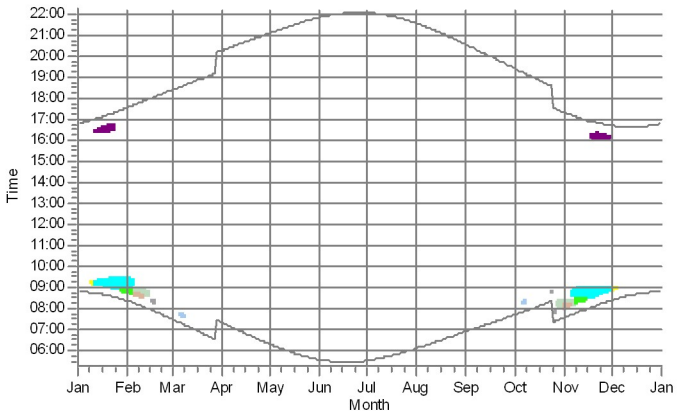
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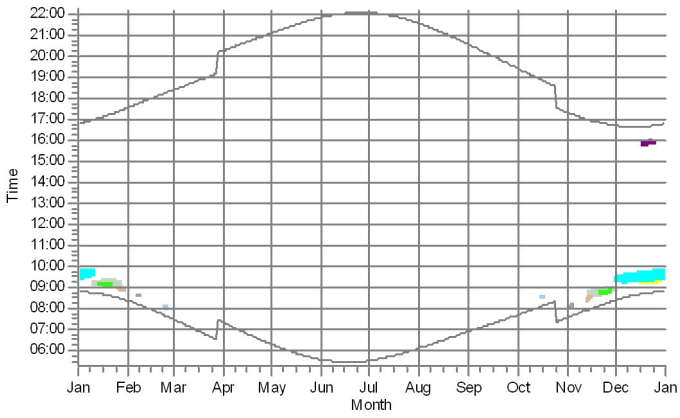
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

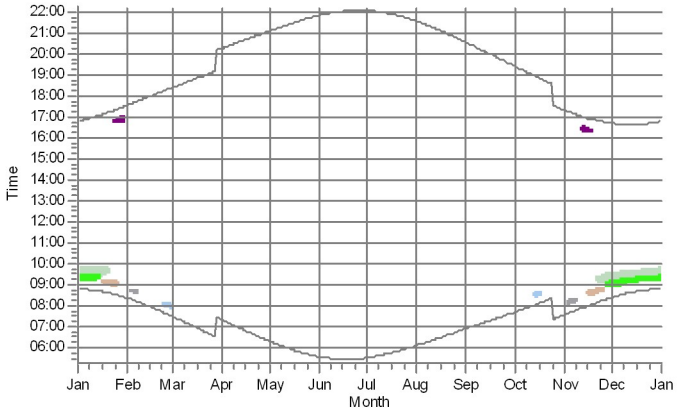
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 19



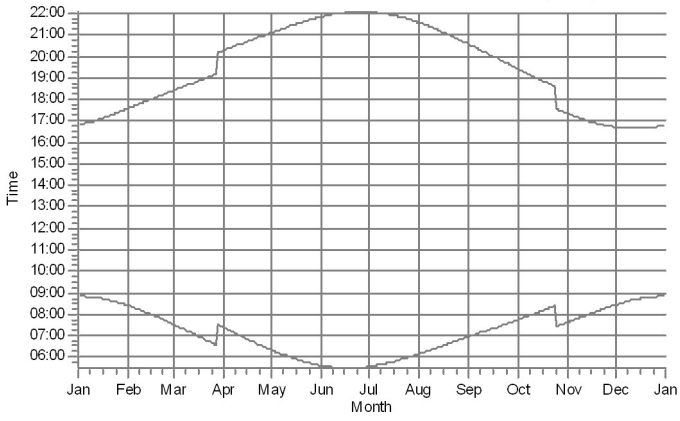
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 19



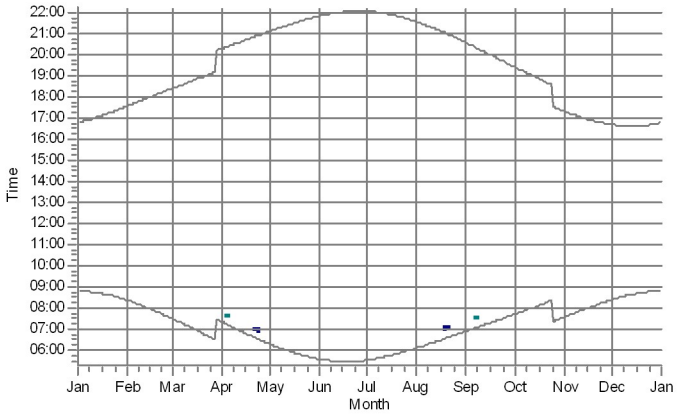
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 19



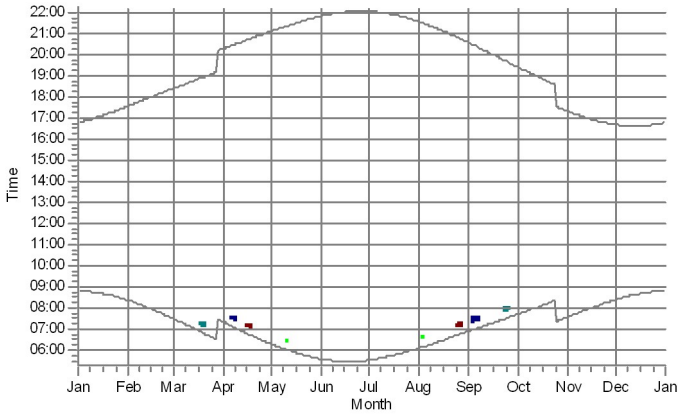
RIN_WT01: Siemens SWT-3.2-101 3200 101.0 !O! hub: 127,5 m (TOT: 178,



SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

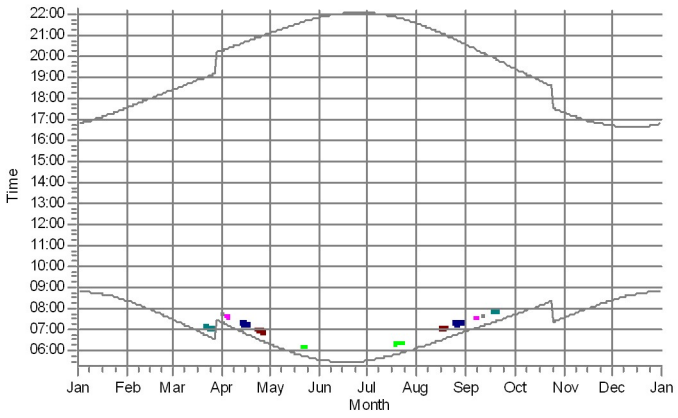
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Calculated:
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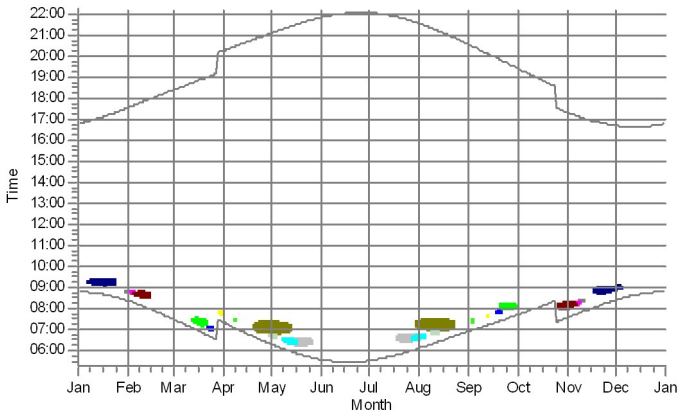
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

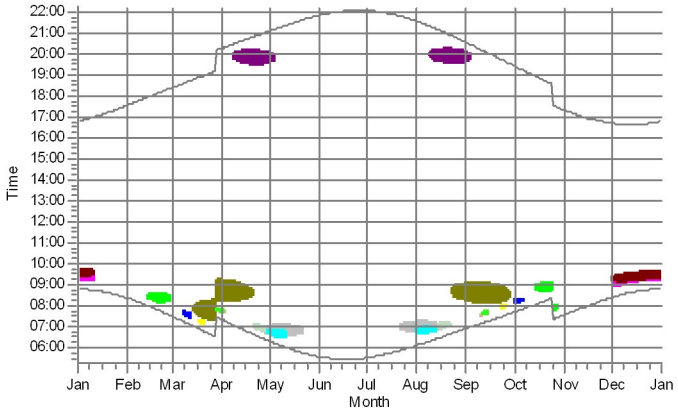
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



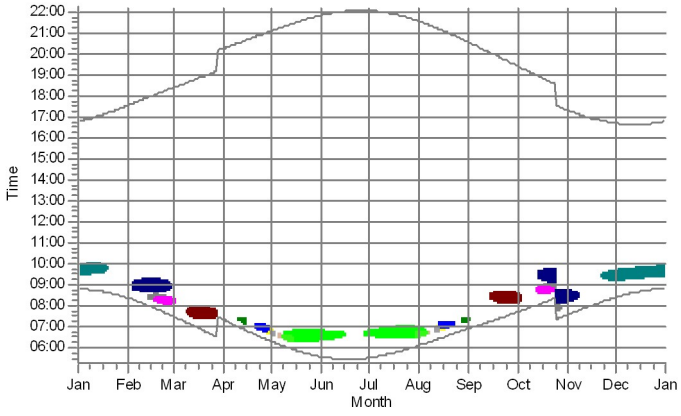
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



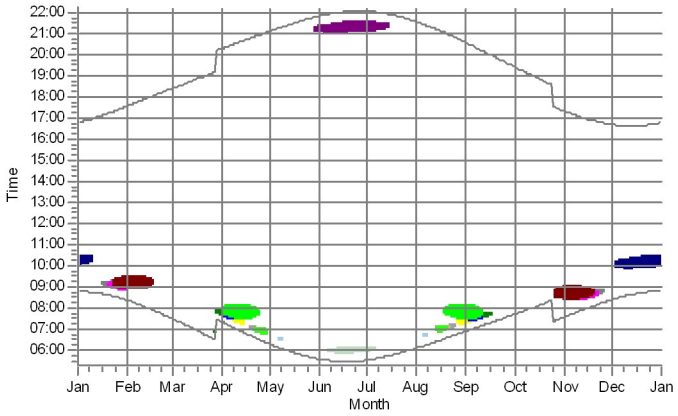
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



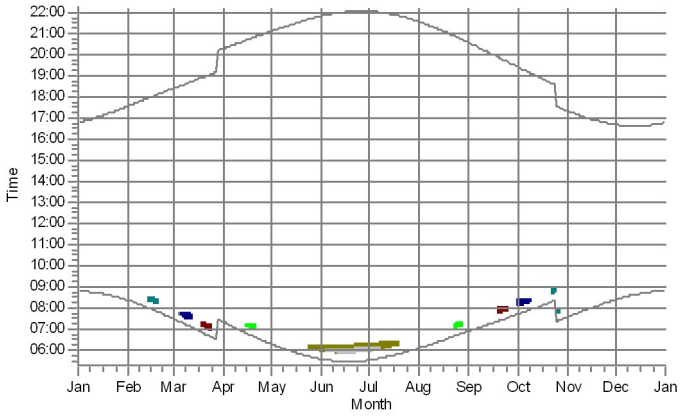
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 11: Schuitstraat 1, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
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- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 41, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

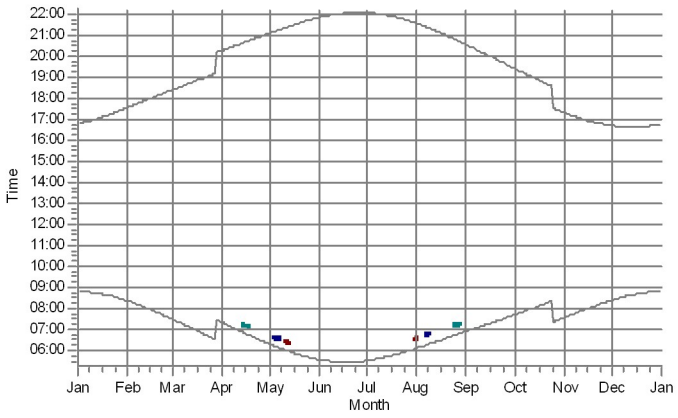
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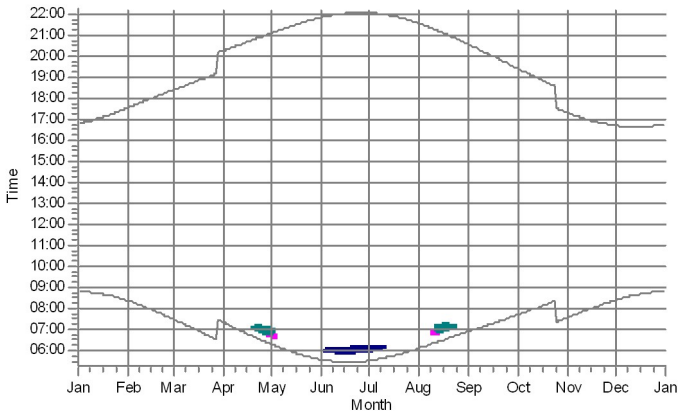
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling

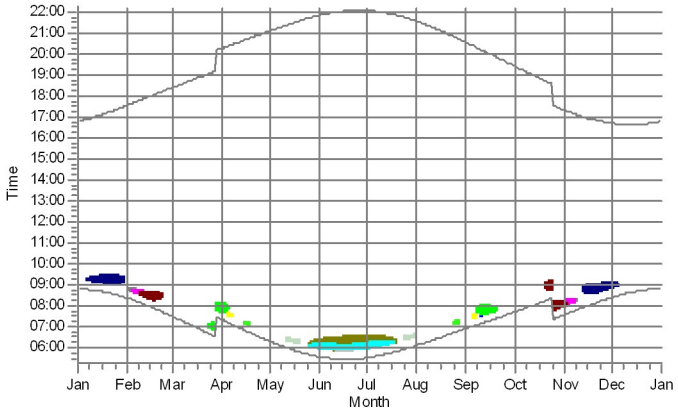
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0



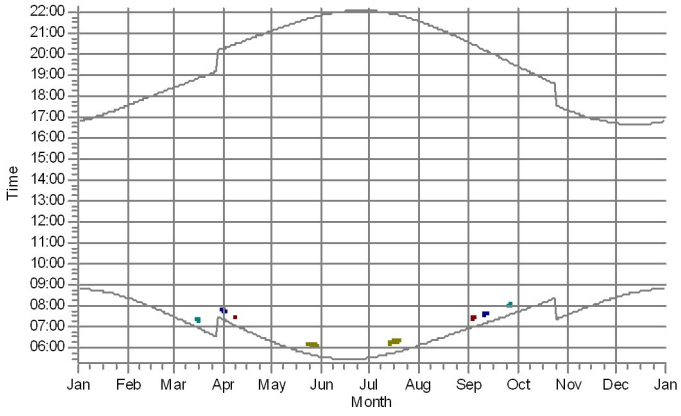
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



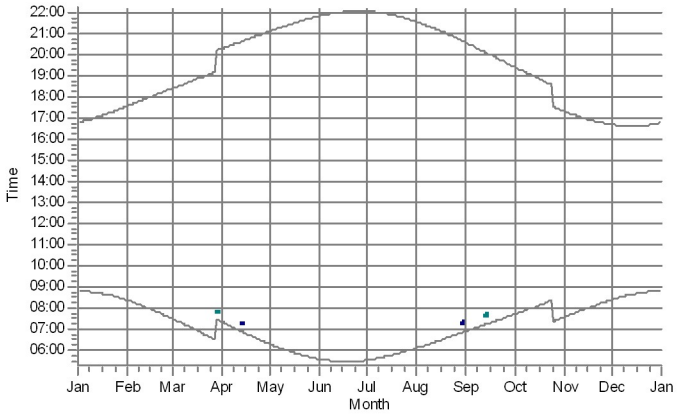
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



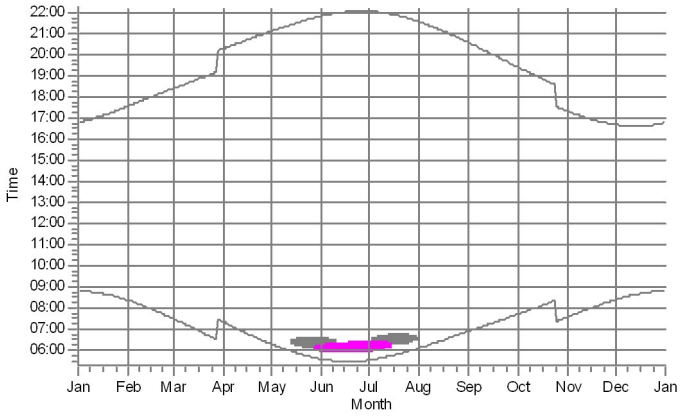
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 r



Shadow receptors

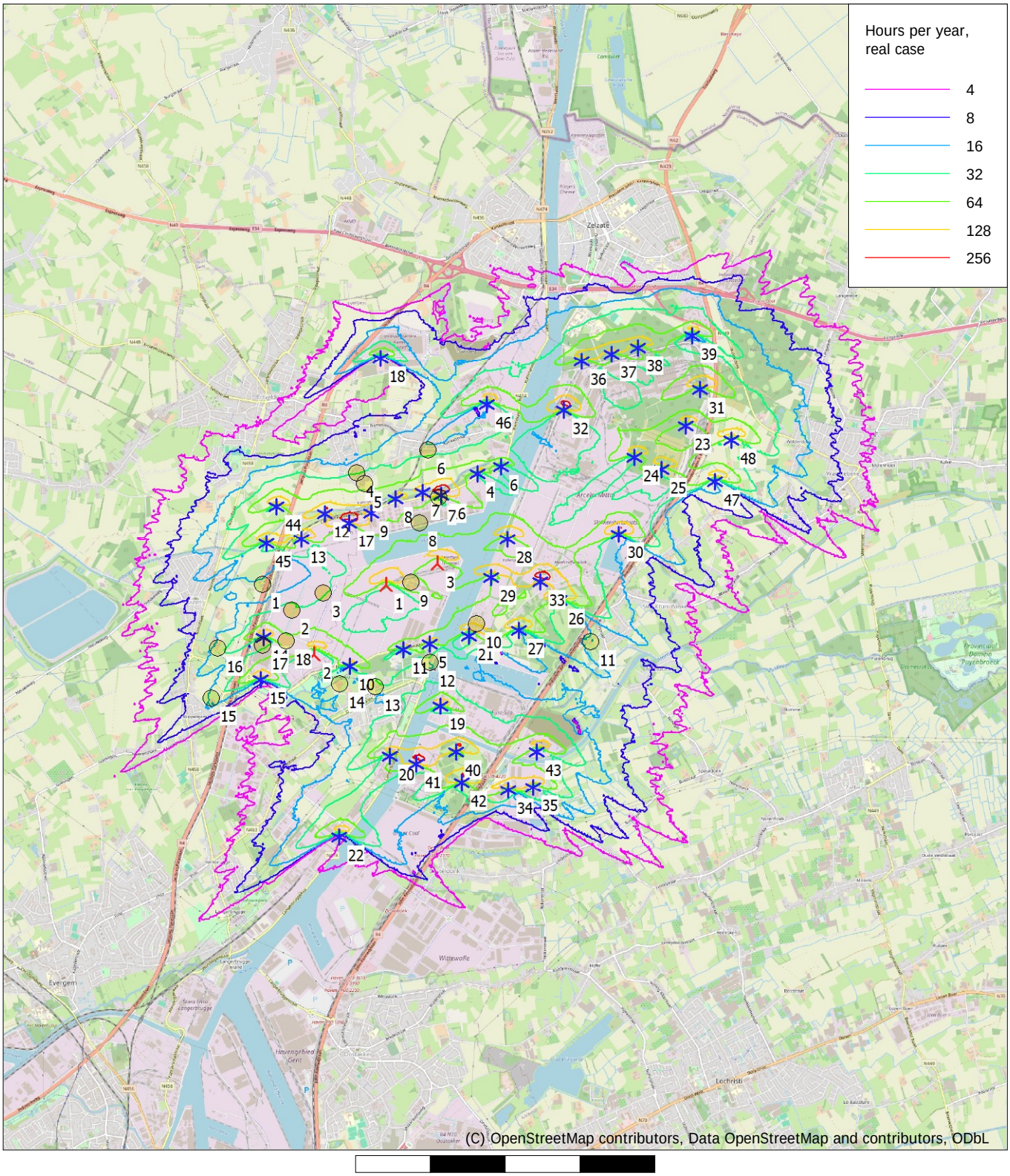
- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: Ooievaarstraat 7, 9940 Evergem
- 5: Speidamstraat 58, 9940 Evergem
- 6: Rimewegel 46, 9940 Evergem
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 23, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

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Arcadis Global B.V
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Calculated:
09/04/2026 09:13/4.1.264

SHADOW - Map

Calculation: Slagschaduw Windpark Stukwerkers - Project + Ref B + Ontwikkeling



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.600 North: 205.380

New WTG Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

Colofon

SLAGSCHADUWSTUDIE
STUKWERKERS

KLANT
Luminus

AUTEUR
Gilles Poilvet

PROJECTNUMMER
30320861

ONZE REFERENTIE
Luminus Stukwerkers

DATUM
03/07/2026